

<210> 3538
 <211> 162
 <212> DNA
 <213> Glycine max

<400> 3538

atgcaaggaa acatgcttgt tgctaggatt ccaagatttg gctctagaat tagaaaacaa 60
 catgaaaatt aggattcgct tgtgagagtc tttgctcgaa tatgggctgc cccatgggtg 120
 atatagaggt agtgtgcaat acaccttgca ataatgtgta ta 162

<210> 3539
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3539

catctgatgt tntcccttta gccacaattt ccaagtactt ccctaataga ataaaggata 60
 tcatcatgga acttgtctca aagaaatctt gtccttcana tgtgtgcca gcgcaaccag 120
 cacgtccatg ttagcggatt ttcgcttcag tgcattgat gaacctacat agaacctaat 180
 agtaatatgcc atagtaaaat gactataaga atctccaatt tcttgaaaac aatacaataa 240
 aattgtcttt ggtgaataaa gagaaacatt aacaagaaaa gaaattagaa ttaaattagtt 300
 attgatagtc atagtacctt ttgccaaacta tgaactgcac aggcgtgcta agaattccatc 360
 ttataaacia cccaagagta agcgtattgt ggatc 395

<210> 3540
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3540

ctaagcttgt gcatgggagt ggngtcaata ggaagaaact cttcanagat ggaggaagtg 60
 tgcgtaaaag ataacaagg aatgagaaaa aattatttgt aattaaaaaa aataaagaaa 120
 agtaaaatta cataacaact cttagattta tccatatcta aatgataaca aattgggttt 180
 tttccaattg aaaagggtgt tgatgcgaac atacaccttg taattnttaa gtgagtctat 240

gtagcaaac cccatatata tatntttaag aggaaagaga ccatgactaa ttcgaagttc 300
 agttgggaca taaataaagt ctgacaaaaa aatattttca tcaaggatca aacttaagta 360
 ctacctgaat gattcaacct tagcttcac acat 394

<210> 3541
 <211> 442
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3541

agcttcatga tgaatcaaga atgattcana gaatgtttga ttatttcaaa ggtgatgaca 60
 aaaagctcan aggtcaagaa cacttcatga taacaaagat gatgatctta agaatcaaag 120
 aatgagttca atatggttca agaggaaatt agatttcaag aatcaagatt caaggttcaa 180
 gcttccaaga atcaagatca agattcaaga ctcaagattt aagaatcaag agaagactta 240
 atcaagataa gtatgaaaac gttntttcaa aaactgagta gcacatagat ttttctgaan 300
 acctttttac caaagagttt ttactctctg gtaatcgatt accagattat tgtaatcgat 360
 taccaatagc aaaatggtt tcaaaaagct ttcaactgaa tttacaatgt tccaattgat 420
 ttcaaaatgt tgtaatcgat ta 442

<210> 3542
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3542

agatgaggaa gtgtagaagg gtgaaacttc ctgcttttat tcggttgacca catagtggta 60
 cctggagata tgtecgggng gtcaggagac cttngggacg tcaggtggcg tgctattgcc 120
 caaaaccaag cttgaccaat cccgaccaa cccgggcata gtcagtcagt gagaacctgt 180
 gatgtaccta agcaggcgag ctctgggag tcaacagata aaaggaacaa agaccacaaa 240
 gcaaggaggc ttgtgtggtg gttggccagc tgtgaatctt gtgtgatata tggggttatgg 300
 cctctggtaa tcgattacta aggggtggta atcgattaca aagcttataa atgaagacag 360
 gaggctaaga tggctctctg taatctcatt cc 392

<210> 3543
 <211> 334
 <212> DNA
 <213> Glycine max

<400> 3543

gccctagaag actggcaagt tttgttaaga ggcgggctc gacatctgaa cataatcttg 60
 agttagctac gaaccgatat aacttctttg tgtgacttct tgactaactg acacatagtt 120
 gttgaatttg ttgttgtgaa tgtatgtatg catgcattct gatgatgcct aacaagaatc 180
 gagcaaagtt gcttcacagg ataagcatgg cgttcgagaa taatacaaga ttgtttcaac 240
 aaatcaagtc ttacttcgag attgactcaa gatcaagcct tgccttaata caaagtgctc 300
 tcaagacatt caagactctg gtaagcgagt acca 334

<210> 3544
 <211> 245
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3544

atacaccctt aagactagtt cccaagcaag gactagccac attaaatgct tcacatgtct 60
 tgggagaggt cacattgcct ctcaatgccc cacaagaan atcatgatta tgaggggtca 120
 agatatttat atgtagtcaa aaggagacta cttctttccc ttctctgagt ggaagtgaac 180
 atgaagtatg ggatgaagag tgtagtgagg aattctaccc tcatgaagaa tgtgacctcc 240
 taatg 245

<210> 3545
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 3545

agcttactcc acgctatcct ccatatctag attttcagac cttcgattct cactcgagtc 60
 ttcaccaaatt cagctcccggt agagaccaat cttctcttat ttactctctc tttcacttcc 120
 accgatcaga atccagagaa acttcatcaa atggcagagc cgtcaaagaa gagaagggga 180
 tcattttcca cgtcacccgc tgctgcccac cgccgtcacg gcccatccgg agcaccaca 240

aataggcatc acccatatct gagggttca t

451

<210> 3548
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3548

tcatgagtga atcaagatga ttcanagaag ttttgatgat atctttggtg acgacaaaca 60
agctcataag tcaagaacac ttcatgataa caaagatgat gatctcaaga atcacagaat 120
gagttcaaga tggtcacgat tgaatcaaga acacttcaag gttcaagaga aaatttgatt 180
tcgagagtca agattcaagg ttcaagcttt caagaatcaa gattcaagggt tcaagctttc 240
aagaatcaag atcaagattc aagatacgtg tgataatagt ttttcaaaaa ctgagtagca 300
catggatttt tctccaaact tgittaccaa agagttttta ctctttcggg gatcgatacc 360
agattgttgt aatcgattac cagtagcaaa at 392

<210> 3549
<211> 351
<212> DNA
<213> Glycine max

<400> 3549

agcttccatt gttcaagttt cgagtgtttt cgatatatta tgcgcctga atcgacacct 60
ccgaatgaag ggctatgacc attcgagtct ctcgagagct acctttgatc aatctcagag 120
cgatcgatat attatgcacc tgaatcgac ctccgcgaga caagattcac cgttctagct 180
tctcaagagc ttgcgctgga ctacttactc ccgcattaac agtgatgcgc ctacttaagc 240
catacgagtt tgacatcctg accttttagac tgagtcgcgc acctacgttg ctgaaatcct 300
atcgteccaa gagtttttgc tctctggtga gccactacca gattattgta t 351

<210> 3550
<211> 257
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3550

tagccctaga ggngatggac cttttcaggt tttggagagg attaataaca atgcctatag 60
 gttggacctc ccagaagagt atggagtcag caccactttt aacatttctg atttaactcc 120
 ttttgcaggt ggagctgata ttgaggagga ggaactaaca gatttgaggt caaatcctct 180
 tcaaggggaa ggggatgatg caatcctccc tatgaaggga ccaatcacta gaaccatgag 240
 caagaggctt caagaag 257

<210> 3551
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3551

agcttgagat gaggaagngt ttaatgttga atcttcctgc ttttattgtt gaccacagag 60
 tggtagcttg agatatgtcg cgggggtcag gagaccttgg ggacgtcagg tgggggtgcta 120
 ttgccccaaa ccaagcttga ccaatcccga cccaaccgg gcatagtcgg tcagtgaagaa 180
 cctgtgatgt acctaagcag gcgagctcct ggcagtcaac agataaaagg aacaaagacc 240
 acaaagcaag gaggcttgtg gtggctggcc agctctggat tttgtgtgat atgtggagta 300
 tggcctctgg taatcgatta ccaaggggtg gtaatcgatt acaaggctta caaatgaaga 360
 caggaggcta agatgggtctc tggtaat 387

<210> 3552
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3552

tagatcaggc atccgagtca ttcgttatgg ctgttcgaat attcataggc attccatttc 60
 aacttttaat cgccatgata tattacggng ctcaatcgga catgagagtc aaaacttttag 120
 cccgtcgtaa ttcacccgag ttttccatgt ntaaatttga gcgtcgcgat aggttacttg 180
 cgttattcga agatccggtg gaaaagatat ggtcgtttgt atttgcgatg ggcttcattc 240
 ttttcctaag agcatctcga tatattatga gcatcaatca cgaatccgag tcaaacgtta 300
 tggctgttcg aatttgcttg gtcagcccat ttctactttc gagggcgatg atatattatt 360

ggcctcaatc ggacgtccga gtcaaaagtt ttacccttca gaattcaccg gagtct 416

<210> 3553
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 3553

gcaaaccgga gcaccgttca accacttgga ggtttggaac atctacttga cagaggtaat 60
 ggcttcgact cccttgagga gctttacact tgaggatatg gaagacgatt catctagatc 120
 tggttctatg acgaggetag agagaccatg cctcatgaca cccagacca ttactgatgt 180
 gcatatgggg accctttcca tgtatgtccg cagatgctgc taattctatt tgcatcaact 240
 ataatttgat ttacactact catatatctt atatgcacgc ttccccttgg agcggctgca 300
 ttatcttttg acccttgcca aagttacatt tttctcctct gaactgtaga tagatgcacg 360
 catcacggct cctaacatat tgcattggcg gcactat 397

<210> 3554
 <211> 129
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3554

agcnttgtaa taaatcttcc aaacatcctc taatatattt ctntcctcg gtgtattggg 60
 ctttacttgt agtgagttca ttaatttctc atttgtctgt gactatgtct tttcgttctg 120
 ttttaattt 129

<210> 3555
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3555

tacttatggt gttaaagtag atgagctcca tgacatgcaa gattgtctag tcttcctcct 60
 agatgaattg tcacactctg ataaaaaaaa aaaattaaaa taacatgtca cacatgtctt 120
 tataaaatta tagaataatt aactgctctt tntctaattt tttagcactc caatctgggt 180

catcacagtg	ctttttctcc	tggtttacac	tgatggtaag	cgagtacatc	ttataataat	240
ccaccaagcc	taaatcattt	actgattatt	gattaaatgt	attactataa	ttacattntc	300
gtgccattat	tgtatatgga	gaggttggta	ctcttattat	tggcaggggg	atttaatgac	360
ttgtttctaa	tctctgatgc	ttatcataat	tgttgagata	caatgtattt	gtcctagaga	420
ctctagttat	attactctct					440

<210>	3556
<211>	404
<212>	DNA
<213>	.Glycine max

<210> 3558
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3558

agcttattgg gagataattn tcaatcatca ttgntatatg caatgacaat caacaaatct 60
 caagatcaat cactagcatt tgtgggtttg tacttgcccta gaccgatgtt tagtcataaa 120
 caattatatg tggcagtttc aagagttcaa agaaaacaaa gattaaagat ctttaattcat 180
 gacaaggaaa gaaaaccatt gaagtctgct actaatgttg ttttcaaaga ggtatttgaa 240
 aacctttaat aagtatgtcc acaagtgcta ctaattctat ttgtatcaac tataatttga 300
 tttacaatac tcgtatatct tatatgcaag tttcctcttg gagtggctgc attatttttg 360
 gtccttggcc aaagttacat ttttctcttc tgaaatgtag atagatgcaa gtatcatggt 420
 tcttaacata ttgcattggt gggaatatgt ggaaacaata tga 463

<210> 3559
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3559

aggtagaaga agaagttcan agacattcag anatattagt ggataagttg ctgtcaaaaag 60
 aattgttgaa tgaattaatt aagattaccg aaatgcaaac caaagccttg cttttataga 120
 ctcttcatgt ctggtcaaga gaaccattag aagagttata acctttagaa aaactntaaa 180
 aaccatttga aaaagttgaa aactatttga agagttacat cttttgattn tgttcagaaa 240
 ctatcactgt taatcgatta ccaaaccagt gtaatcgatt acacanagct tttttgtgaa 300
 aggatgtnga ctctttcaca attaaattga attccaacgt tcaaacacac tggtaatcga 360
 ttaccanac attgtaatcg attacaacat tntgaaataa attggaacgt tgtaaattca 420
 gttgaaggct ttntgaaaaa ctatttgcta ctgggaatcg attacaacaa tct 473

<210> 3560
 <211> 458
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3560

agcttcttat ccaaggctca tcttgnnggn gtttctcctt cttctatggc ttattcctta 60
atggatggcg cctcctctca cctcctttcc tttgtcttcc gctgcatctc catggtggaa 120
aatcaccatt aaaggacccc attgaagctc aaagatccag cctccataga agccccacaa 180
gcaagcctcc atcaagtggg aatcagagca caagagcttc aagtaggtgc tccttaaacc 240
tccattatct tttttgcttt accttctctt ccattgttgt ttcttcattt tttctccatg 300
tatctcctca catgtcttgt gctaaatggt gttaacatga ttctttagag tttccaccaa 360
ttaaacttgc tatagaagct agatttgatt ntctatgggt cacatttctt gttcttggtc 420
ttgaaccatg aattgtgttg agtttaagtt cctttgag 458

<210> 3561

<211> 374

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3561

atgaggaagt gttgaagggt gaaacttctt gcttttattg ntgaccacag agtggtacct 60
ggagatatgt cgcggtgggtc aggagacctt gnggacgtca ggtgggggtgc tattgccccaa 120
aaccaagctt gaccaatccc gaccaacccc gggcatagtc agttagttag aacctgtgat 180
gtacctaaac aggcgagctc ctggcagtcac acagataaaa ggaacaaaga ccacaaagca 240
aggaggcttg tgggtggctgg ccagctgtga actttgattg atatgtgggt tatggcctct 300
ggtaatcgat taccaagggt gggtaatcga ttacaaggct aaaaaaatga agacaggagg 360
ctaagatggt ctct 374

<210> 3562

<211> 304

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3562

ttagagtcta actgcacgcg tgcgcgcgca agcttctctt ttgccatact tacaaatttg 60

nattttttgc ctgggcgtat acttttcaact agcgtttgta gaggctctat agcgctattga 120
 cagcctataa gcaaactaca tgtagatgct gtcgtagata tagaactctg gttgggtgtga 180
 aaagttgctt ttccatcatg aaaatgaaac tcagattcca gaaaagattg ccgtatagag 240
 atgggaaaac tcgaactttc ttgcttcgtg aacgaaactg agtcacaata catccctaga 300
 gctg 304

<210> 3563
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3563

ttgaanatct ttataccctc ganancnacn cagcgaaact aagcttgctt cacaataaca 60
 acgccaacga tttttctact atatatngac tgccgacagg agtacagaag tcatacacta 120
 ttcttagaat gattataacc ctgggtccaca gataaaagac aatgggtgct cacctggctc 180
 gcctctccta cttttacact ccactctggtc atcacaagct ctttctctgg ttacactgg 240
 tggaaccaga catcttataa tatccccccag ccaatcattc actgatactg cataacgact 300
 actataaaca ttctcggcat atttgatatg gaagggtcgca ctctatatgg caggggaatt 360
 aagactcgtt caaccctgac gctatacaat gtgaacacat gatgtctccc aaacctatat 420
 actactcttg gatatgatat acatactcca tcagct 456

<210> 3564
 <211> 129
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3564

agcttaggga tggaatactt acttggtggt gatgaacaaa aacgcacaat ggaatcaaaa 60
 aatgcgaaaa aggatgaccc tagggctaca aactcgtcaa tcccgtgggt atggcttntg 120
 aaagggggg 129

<210> 3565
 <211> 154

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3565

 tacaaaacct aggtatctct gcanaagctg ctctcttgc agtcncgaga gctcttttcc 60
 cgaaataggc actgtggtgt gttgtggaat tntgtgccct ggccttctta aagttttgta 120
 ccctaatttt gcacaagata ggctttaaat aggt 154

<210> 3566
 <211> 375
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3566

 agctgccaat gttgtaaaat tgtctgtttg tccacaggta gcaaactgtt ttgatttgac 60
 tttgcaacga gaattgcctg cggatgcagc ctggtacata tataccacaa caaattcata 120
 ataataataa taataataat aataataata aaaaatgaac tggatgcact aattaatgat 180
 ggagacaagt cttggcttat ttgaaagaag ccatattgac atgaaacttt aaaatatata 240
 ctttaaaaga cagtacttga aaaaggagga cattgaccct ttgggttanca attctaccat 300
 ttgattttct tggtaggat gacatatgtg atacgtctaa attgaaggaa atacgtataa 360
 ggagattttc ttact 375

<210> 3567
 <211> 169
 <212> DNA
 <213> Glycine max

 <400> 3567

 agaatcgga gaagtaattg gctttttccc tggcgatcta actgcagatc tcttgacctc 60
 tgccgtggaa gcagctgcat aagccattca tgatatttct acaccttaga tcaacatgat 120
 gaaagcagct ggggtgggacc ttgatgctga tgccaactga ctcgaacct 169

<210> 3568
 <211> 79
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 3568

agctctccca ccctacatcg gcngtttttt natacntttt tgtcaccatt gnagaaacga 60
cgaagacggt ggaagggag 79

<210> 3569
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3569

agcttatgag aaaccattaa aactttttgt tttcctatac aaacancaat ggaagaagct 60
tcgtcaagta ttcccatga aaaaccttta ttcaaactt tcaaagttag tgagaaggct 120
acacgaaaaa ttagggaact tagaaaaact aaatccttaa ttgaaggcgt aggtgacaat 180
catagtgaat tactaaataa gattgcggtg ttacttaagg acattccaga tactcccaa 240
acctcgaaaa atacttccaa aatggcaaca agaagtacct ccaaattaat taatgctatt 300
aatgaagaga gtggccacaa ctgagataat gatcatgatc acacaagaat ataaatccac 360
ttaatttcaa cactggaata caccctccag attatattat caacgtccga ctgccctgat 420
cttt 424

<210> 3570
<211> 406
<212> DNA
<213> Glycine max

<400> 3570

agctttttga aaactttttg aattgctttt tgagaaaact tccttgagaa gctagagctt 60
agctacacat acccctctca taactaagct cacgtacttg agaagcttcc ttaagaagat 120
tcctaaagaa gctaaagctt agctacacac acctctctaa tagctaagtt cacctccttg 180
agatgagaag ctagagctta gctacacacc ccctataata gctaagctca ccccatgac 240
aaaaaacat gaaaatacaa aaaaaaaaag tccttactac aaagactact caaatgccc 300
cgaaatacaa ggctaaaacc ctatactacc agaatggcca aaatacaagg cccaaacgaa 360
gggaaaacct attctaatat ttacagagaa tccaaccttg agccat 406

<210> 3571
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3571

tctctcgngc catttcctgc gaaggcaaaa atttggaag ttatttntac cagtgggaca 60
 ctactcttat aacaaaaatg gcgtagaacc tcttccata aatacaaaaca tcaatgtaaa 120
 ttttagagcaa gcttatgcgc atatttcctt acgaacgttc actngcaciaa gacatcctat 180
 caactaagaa aaatgcaccc atatacaatc aaggtagctt cattacctag attatgtact 240
 tccaaggtgt atntgttatt tacatcacac acgcctcctt ggctgaattt acatacatgc 300
 atactcaaag cattttgggg taccaaaaac tgcacatgcg ctcatcttgg tatttctaata 360
 acccatacat atacaaactt cacgatgaat cttgactacc tacac 405

<210> 3572
 <211> 616
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3572

cacgcgcgac acactcttcc agtantcagc acactngcgt acactacgnc ngtgccgcna 60
 ggaacacgca tactccagac ccccccccc cennnnnttg aaatcaattg attgccgtcg 120
 cannnacagn cgannnacga gagacgagcg cgcacgcana gcaagcnnca caacacgagc 180
 aangnaagnc atatatctct gttaacaac gcgagaaaca cgaacgcgca acgcgagcag 240
 aangtgcgcg gacaacacga ccacaccacg cgacaagaca caacgtaacc gaccgccacg 300
 ccgcaacctc aggaaaaccg aagcacagca aagaaccaca aaacacgcaa catagctcgg 360
 agaaacaata agcaaagaag caaagcacc cccaacaaaa gcaccacaac aaacaaacgc 420
 gacgccagct gggaaagatg ccccgaaacga agcgacgact aaccaacgtg aaaccaagac 480
 caacatcaac gcccaaacca cgcgctggac cgaacaacac gaaaaaccgc nccaggaccc 540
 cgcctaaca gaccatttgc agcaaccggc acacgaaccc aaccagcgaa acacaccggc 600
 gccgacgacg cccacc 616

<210> 3573
 <211> 138
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3573

ctcgcttggt ntggaagttc tatagagaga atgttccaag ntttatagag cncctgagaga 60
 ttntgctgtg cgaagatctc tagagacgag agctcgaagc ggaagccatt ctgagaactt 120
 gagatgagct tgtgagtg 138

<210> 3574
 <211> 160
 <212> DNA
 <213> Glycine max

<400> 3574

agagccatga gcctagggaa gtaatacaaa cgtactggct gaatgtaact gaaattgttg 60
 gcaaccataa ttcaccccca acatccaaca agtcagcctc cattaggtct ccaaatatgc 120
 tgatgcctat gttgccaaat ggggccatat tacgacatga 160

<210> 3575
 <211> 359
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3575

agctntgcaa caaatgtcac tctactcgaa atttctgata gatatgtttg acaggaaaaa 60
 caaacacgtc caccacgaga atattgtcgc ggaacgaaac cgcagtgtg taatacagag 120
 aattcttcca ccaaaacata aggaccctgg tagcgcaact actccttgat caatcgaaga 180
 agtcactctc ggaaaggctc tcattgactg gggtgccaga atcaacctaa cggcgctctc 240
 tatgtgtaca aggtcgggag agctggaaat cacgctcacg agaatgactt tacaacttgc 300
 taaccgatcc atcacaagac cttacggtgc agatgaggaa gtactgacta gagtgaaac 359

<210> 3576
 <211> 297

<212> DNA
<213> Glycine max

<400> 3576

aagaatatcc ctttatttac aatattgtca cctttaataa tttatcatca gttcgagaga 60
taatatcggg tttgatcaaa attaattgta acgagcattg tttattaagg tctgcaaagg 120
aaacttattg atgcaatgct acccgccaag ggcattggat agaagactcc aagaagattg 180
ggtcagatag gcaagagaag gccctagggg tctcaagagc cttatggtag atttcggggac 240
catgggctaa gtatgagccc acttatcttt gtacatatca tattatgatt ccattat 297

<210> 3577
<211> 392
<212> DNA
<213> Glycine max

<400> 3577

agcttcttgc tggctgctta gttttagtaa acttttctca taatgtgtgt ataacagaag 60
gggcgagaag ggctgcaagg tgattttacc taacatagtt gtgggaaatg aacaggcagc 120
aaggagcatt tcctaataaa caggctgtta atggaaatgg aaagaatata tatggatggg 180
gaattgggga gaatgtaggc ataatacactt gcgacacaag caagatacca aaggctcata 240
attctttgta agaatagaact attctcgggt ctgtactctg ctttaccagt ataagaagaa 300
caggttactt ccattatggt cttctgttcg ccttaatacta gatagtacac atcattttgt 360
tattagagct cctaataccag tatgtcctga at 392

<210> 3578
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3578

actcagctta acachatgta accaccacac cttgtaagaa agtattttata tctgatttat 60
aaataaacga ttatatgagt tatgggccac gccatacaga ttattaaacc ttgtggggac 120
agagcagtga ctgttgctaa agggggaacc ttttggagga gagattatct cctatttttag 180
ttaatagaat atttgggttc ccaacaaaaa atgacgcagc tttttgcata aatatattat 240

tgaattactg	actgggcggt	caatcttatt	gatacttcct	cctcatggt	ntacacaaat	300
atcattgata	cgtcccaa	catcagtctt	actgaatgaa	accgggtacc	cacaataacc	360
agtgatgaaa	ctgagacgga	acatatgaca	gaccatagac	gagaccaatc	agttcataat	420
atagcatacca	tacaattaaa	tgagatggaa	gtcgtcggat	attc		464

<210>	3579
<211>	461
<212>	DNA
<213>	Glycine max

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accacttggg	ttgccagatc	cctccacctt	tggggcgtatt	ctttgaaaga	ttcatgcctt	180
tttttgcaca	tgttttgtag	ttgtatccta	tccggagcca	tatcaaaatt	gtactgacac	240
tgctaacga	aggcaaccat	taggcctttc	cgagaatgga	ctcggaagg	ttccaagtta	300
gtataccagg	tgacagctgc	gctagtaaga	cttttttggg	agaaatgtat	cagcagtttc	360
ccatctttta	cgtatgcccc	catcttcoga	caatacattt	ttagatgggt	cttggggcaa	420
gcagtcacct	tgtacttgtc	aaagtcgagc	gccttgaact	t		461

ttntgaaagc tagtcaaaag ctaccatgtc acaccaat

458

<210> 3581
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3581

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tgtctaagac gaggagcatt aagggttatt attgcctgac aataccgctc atcaacataa 120
catttgtgtg gtttgcagaa ttctttgagc ttaggatagt aagtattgtc ttcaactatc 180
ctaagagcta gttctcggtt aatttcaaac cactgggagc cttttcacca ggcaactcatg 240
ttgatttcaa attattttgt ttggtattag aagcatactt cccaatgag tgagaaaagt 300
gtacataaca tatttaatat catgaacaaa caatttataa agactcagga taagatcatg 360
aacaagcatg agccagaaac ccatgatca 389

<210> 3582
<211> 385
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3582

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ctggataatg acgctgacca cagcgtgaat agcctcacga gtggatagta agaattctag 120
cctcaacaaa agaggaccca agtaatactg ggaagagagg gaggggtcac ccaggtgatc 180
ccaaaagagt gagaccatgt tgactggaca aaaatgaaga ccactcgtca aggttgaatt 240
agaccaagag aggtctgtca gaacaaagag tgagaattgt tcacatgtat cgacaccttg 300
tctggctatc caatttggag attgaagact attgaactta tgcccaatat gaacactccg 360
ccaaattcta agagatggat cttttt 385

<210> 3583
<211> 424
<212> DNA
<213> Glycine max

<400> 3583

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ccaaatcgag agggaagggg gaagggggaa aagggaagag gaagaagcct tgaagataaa 120

gaattgtagt caactctttg attagtagtt gtttaagaac cctaacgact ttaataattt 180

tgtaattgaa ctcatgtatg attattaact ttatttttagt tgccttggtg attttcttta 240

gtatgtcagt ttctggcctt ggtccaagtg ctcatcttag tgagagcaat aaatatacct 300

cttaagcatt ttgtaaggac ctttttttggg tgaataatta caatttttagc ttgggtgctaa 360

tagagaaaagt gcttctcttt ggttctttct tggaaccctg attctcatca aagaatttca 420

ttct 424

<210> 3584

<211> 454

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3584

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ctataaatag atatgtaacc cctttcatit gaggtttgct ccattgtggc ggtaagtagg 120

gcattggctc ttttttttgg ttataggatt agaattctct ttgaatctta tcaaaggctc 180

ccatactttt gtggtgattc ctcaacttagc ttatcattct cctagagtgt ggcaccttcc 240

ttttcatttc ctgtctatgc catctttttc ttttggtatt tacttttcca tctcttttcc 300

tcttatttct tactatcacg ttctctaana ttngcaccat tgttacaagt ctttatcttc 360

gtgctaatta atatatttgt ctntaattcc tttaaaaaga taaccaactc aagggaagact 420

tgtaaaacag tatggtttct gctaaggatc atat 454

<210> 3585

<211> 451

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3585

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cttaggcact tctctctctt tcgaatttgc ttaggaaaat tgtttttgtg aagaaaatcc 120
aagccgaggg gcttccgtaa cgtttccgtg agtgatttcg cgaaggtttt cgaccgttct 180
tcgacgttct tcatcgttct tcagtcttca acgggtaagt acctcaaacc aagcttttca 240
attcattcta tgtaccctg gtgggtccaaa tttggtttca tgtattttta gtctcgtttt 300
catttacttt ttataccccc ttttgacgtg cttaagccat ttatttaagt catttctcgc 360
ttaacctaaa aataaaataa atttccaccg atcatttgaa ttgtatcatc cgtaaactct 420
ggttgaaata aattccgacc gatcggtcgt g 451

<210> 3586
<211> 470
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3586

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ctctctctag aaaccctaga cacgcaaagc tctgaatccc agtccaaact ccccttctga 120
aatctgattt caggcttaaa taggtggcct tgtttgtgct cgtgagctta tcacacttat 180
ggaccgctta gtgcacatta gtgaatttcg gcttagcgtg ttcctttctc gcttagcaaa 240
tgaactgaag cgtggcactt agcgaacctg tacatcttat cttcttccag agtcttctc 300
gcgcttagcc catgagtgtt gcgcttagcg gaggtcgcct aagccagcag aatggcttag 360
cgagaagggtg aaaaatagca ctttccanag cttgcctaataaacctgana ttgagagaaac 420
atgataatca aacaaacaat aaggaagtac taagtattta ttacctatac 470

<210> 3587
<211> 449
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3587

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tcggcggcgg gcgatgggtgc acaacacgtt ttccacatcc acaatgcgcg cataaaccga 120
ccatcccctg ttgcccacct ccaactgagc tcacgtactc ccacgtagcc catatcctct 180

<210> 3590
 <211> 332
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3590

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 ctgatgtagc aagaatcaat aatgagtgct tcaactttta atagggtttt ttttgtaaatt 120
 tcaaagatat tttgatgttt tgatgatgcc aaaggaacac gtttctcaag ttttattcaa 180
 gacaagaatt caagatattc aagaaattca agaaataatg atcaagaaaa ttcctagagt 240
 cttacgaaga atattccaag ttgaaacagc aaaagggttat gcccaatgat gtaacttaat 300
 atattntntna aagagttgta ctatctgatc at 332

<210> 3591
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 3591

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 agtaaaaatt tattgtcgtt taaatttgct cagagcttct tttttcaatt acgagcgtct 120
 cgatatacta cgggagacca tcggacatcc gagctaaaag ttattgtcgt tagatttttc 180
 taatagctta tgttctgatt tttcgagcgt attgatattct tacgggacac aatcggacat 240
 acgaggctaa agttattgac gtttaaatat cttcagagct tctgttctca ataacgagcg 300
 tctggatata ttacgggact caatcggaca tgcgagtaaa aacgtattgt cgcttcaatt 360
 tgctcagagc ttccttttta tattacgagc gtttcattg 399

<210> 3592
 <211> 344
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3592

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atcgagagggc tggtaattga aattagaagc tctgagcaca ttcaaacgac aattactttt 120
gactcggatg tgcgactgtg ttccgtagta tatcgagacg ctcgaaattg aaaactgaag 180
ctctgagaca aagcaaacga caataacttt atactctgat gttcgatagt gtcccataat 240
atatcaaaat gcttgtaatc gaaaatggaa gctcttataa aaatcatacg acaatctatt 300
ctatgtcgga tgttcgattg tgtcccgtag catatcgaga cgct 344

<210> 3593
<211> 371
<212> DNA
<213> Glycine max

<400> 3593

agcttgaggt gaaaccact ttaacttatt attttgtcgc tggctgctaa ccgggaaaga 60
cccttttggg tttggcataa cctatacaat gacgactgtc atctagaaaa aatatctgtg 120
aaagccattc cttggacatg gaattctact catttgagtc ttatttcacg taagctctgt 180
aatggctggc gtacctgatt tcctaccttg gcttttaatc cctataaaat catgaaagta 240
cttttgctga ggaggtttta gcacggcacc atgtatcata tcactattac tgaatacgtt 300
tcttcatcat atttatttac acactatgat tgtcaaggat gacgttttaa ctaatagttc 360
cttctcaaat a 371

<210> 3594
<211> 352
<212> DNA
<213> Glycine max

<400> 3594

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tttacaggaa agattctatt tcacctgtaa tccgattcgc aatcccgatg tgtgaccgc 120
ctatttcata taaaataatt ctttctctta tatgtgcaca taccagagtt gggtagcgc 180
ttttttcttg gtcaaagtaa ttacaccatt ctaccagttt agcggctgtc gcaccttctt 240
taccttacia taccaccac tgcacaatgc cctcacgtgt acctcaggcg cggcatcctc 300
tctgtcatgt gtccttttac cgcattgcacc accaccatcc tatgcctaca tt 352

<210> 3595
 <211> 210
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3595

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 tctcgttttg tttacttttt atacccctg ttgacgtgct taagccattt tacttaagtc 120
 atttctcgct taacttaaaa ataaaataaa tttccaccga acgtatgaat tgtattatcc 180
 actaacttcg gttaaaatag aattcaaccg 210

<210> 3596
 <211> 365
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3596

gtggtaatca aagcacaaga gcttcaagaa ggtgcttctt aaacctccac taatttccag 60
 ctttaccttc tctccattg ttgtttcttc atttttctcc atgtatctcc tcacatgtct 120
 tgtgctaaat gtttttaaca tgatatttag aatttccacc gattaaactt gctatagaag 180
 ctagatttga ttttctatgg ttcanatttg ttgttcttat tcttgaacca tgaattgtgt 240
 tgagtttaag ttcctttgag tcttgtcttg ataanttttt gtggctgaaa cctaaaccat 300
 aaaattctta ctaaaacatt aaagtagaag ataacctcta aactctagag agacttgttc 360
 tccta 365

<210> 3597
 <211> 487
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3597

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 tgtggcgatt gggcgatggt gcaagtcgac tttccacatc cacaaatcac acataaatcc 120
 accatcccca gttgccacc ttcaactgag ctcacgtact cccacgtagc cttatcctc 180

gttcctctca acaccgggtc cccatcaatc cctccaagct tccacaacat ccaagcaatt 240
 caaaatccaa acatcatgca ctatcaaaaa caagaaaaca gggcagaggc agaaaactct 300
 gcccaaaaaca caaaccaata ccacaacttt ccttactcac ataccccagt aacattctct 360
 tcgttccaat ttgttcaactg ttggatcgac tcanaanatt tactggaggc ccctagtaca 420
 taagtctaca tnttgaccgt tgggatctgc tagaanacgt ccagaacca atatgtacta 480
 ccctttt 487

<210> 3598
 <211> 448
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3598

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 ttatgaatga caggatgtag tgacataaag tgcttagaga gttcacttgc atgtgaaaaa 120
 ttttcaaaaa gaaaaagact taagttaaaa ggataatgca accagattaa tacttccaaa 180
 gaaaaaaatg ttttgcaaag acattttcag acaatttaaa tatttttatt tgactatatt 240
 agtataaatc atctctaate catatatatt ttaatatatt gttctttnta ttcattntct 300
 tttgatatac tttgtgtttt aataatttga attcaatatg attntgttta tcaattattt 360
 ctggatttga catntactta tacgaaattt ataagtttct ttttttggtg gtatttacta 420
 ggtttaaaat gttaattggt aaagacgt 448

<210> 3599
 <211> 559
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3599

ccaccccaca ccgctgcat gcgcaaacc acccccaaaa acactcanct ccacaacccc 60
 aacggatgac cattcatgca tacncacac cagacgcagc aggaagctna attaagatng 120
 ncgaaccgac aattactttt acttatcaga accaccaccg gcccagaaa cgccacatcc 180
 aggagcaccg cagccgccg caagacaaca caaacaaga atctacatca accattaacg 240

tgagcacctc atctagccct gtgcctcgag tccaacccta gccaggaatg agagcagaaa 300
 tccagacacc acgaagaata caaagcccca ttgccacacg gaaccgacaa gaagaatccg 360
 tgaccatcct ttgcgcactc agcacggcac aaagtaagtc gagcacaact catacaaacg 420
 cggggggaccc tcaaacgacc gccgagccct caaaaccccc cctaccgact actgcgaacc 480
 caacaggacg ccgaacaacc acccacgtac caacacgcaa ccaaaacagg caagatacca 540
 ctccacaaca cgacaagcg 559

<210> 3600
 <211> 419
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3600

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 tttaaaaata aaggatcaaa atcgtaggaa aaaaaccaa ggatcaaaat tgtagattag 120
 aaattatagg tgataaaaat tacaatttaa cctaaaacat ttaatcatta tataataaaa 180
 tttaatagat ataaaatatt aaaaagtgc atttaattta aaattactct taagataact 240
 ttattgattc tcgtgataac tatatttttag agcttacttt ttatgtgcgg aaatgacaga 300
 gaatttttac atgtacaagt taataaatta tggtacagaa atatgttgat ggtctacttt 360
 ctggatattt taatatatnt tttataagca tttagttctt attaccatga cacctaaat 419

<210> 3601
 <211> 467
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3601

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 ctagcagcat acttccacag aaggtttaaa gacattgaca caggctagga gaactaccac 120
 tttaccaag gataacaagt taaaccgtga ttcactacta cttacgtagc ctctaaccac 180
 aacctttcca cacgggttga tttcaagtaa tttcatagta gtaaaacaac gatccatgac 240
 tatgtgcta attcattcgc ttttcttttc tctcccatat agaccacaca gcatggatta 300

ttactaatta agttctttct gacgcacact ggcacccaat ctttgtagct caccagcacc 360
tactttccca aacaagaaat cgaagtccat aactgttcca cagtactcag agaagtgtan 420
gagcaaataa tgattttaag ggtaattaat taatcaccaa aatctga 467

<210>	3602
<211>	521
<212>	DNA
<213>	Glycine max

caccaccccc	ctcaccacn	ctcatngctt	attttcccg	cccccaatac	gacnnatagc	60
ctgaaccgac	tacgcacgcg	agcacttttt	tacaaatcgc	aggatacatc	atttaagcac	120
ccccggtctt	cttggttaaca	tgcccattgc	ccaaattcaa	gaaaggaaac	acacaattca	180
tcataagcac	ggcatcaatg	taaaacaagg	gctaccaccc	ttttcacaaa	aaaaataaac	240
caccttactg	gcctaccaat	caaaggaagg	taaactgttc	accatgcttc	aagatgagca	300
actatacaac	tcatggccaa	gactaacaaa	aagtaactca	tggactaacc	atcaaggtat	360
actaataact	caaaagaagc	acaaaaaata	acccacacga	aattaaaagg	cccatgattg	420
gccctaagag	gcctcgtccc	gaaaccccct	cctcccatgc	gaatgcagga	ccgacagaga	480
tacaagagaa	gcatttcgag	aactggactg	gggtggttcc	g		521

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<223>      unsure at all n locations
<400>      3603
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ttaattcata tggtaattgt gagtatntaa tatattatga acttctcgta aataattgac 420
tatatctaata ct 432

<210> 3604
<211> 272
<212> DNA
<213> Glycine max

<400> 3604

tagatcaggt gatgtgttct ttgtttggaa ggcaaacata gatatatata ttattaataa 60
gatcagatca gcaccagaag tactgatgaa ttacacataa atacaagaca ctaagagtgt 120
cgctttccaa ccaaaacaaa cctccaaaa atccactaca aaggataaaa tatccatccc 180
aaacagatat acaatgcacc cagcccatat caactaatat aagccacacg gttcgaagac 240
cattgggtga aggatatact gaagagattc tc 272

<210> 3605
<211> 427
<212> DNA
<213> Glycine max

<400> 3605

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acgttgatgt ggatgatatc tccagagcta cctgcgtcaa ctatatcaga gaaaaatcac 120
acccttttga cgtattctag gagctgagtc taagacttca aagagaaaaa gactgtgtca 180
tcaagagaat cagcagtgac catggcagag agtgtgacaa cagcaggttt actgaattct 240
gcacatctga aggcatact catgagttct ctgcagccat tacaccacaa cagaatggca 300
tagttgagag gaataacagg actctgcaag aggatgctag ggtcatgctt catgccacag 360
aacttccta taatctctgg gctgaagcca tgaacacagc atgctacatc cacaacagag 420
tcacact 427

<210> 3606
<211> 482
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3606

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gagagggaaa tgatcacaat tatggtagat acgttaccca cgttctaata tgaaaagctg 240
ataggctaca tgccagctaa ctttatggat ctggtcttcg ccggagaaaag gattgaatcc 300
ggactacgga aaggcaagtt cgaatatgct tccaatgtgg cccccaacaa caacagaaga 360
gccctagtag tgggtgagag gataaaggaa ggagacatcc acgctgtcac caccgccccg 420
atgtggatga tagcacccca aaatatctaa agctcatac 459

<210> 3611
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3611

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gccaccccc tgatattgga gggcgaccaa ctgtgcaagc acaaccagag agggaggcta 120
tcacgcacct actatgcata ccggggcaag atttcacccg tgccgctgca aagaaacgag 180
tgtggatcat gtgcaccaac atgactacta ttacacagat atgtatgaca ttgctactta 240
tcaacattct accctgcaga tgtatcaggt ggtctgtgtc atcccgacat aggttaagtat 300
gcatatgggt caactgattt ctaatgtcat ctactatntg gagggagcgc gaccacaatg 360
caccagtggt acccgaggga gt 382

<210> 3612
<211> 193
<212> DNA
<213> Glycine max

<400> 3612

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acttattctt ctttgtttgt tccgaagcca tgtgtaaagt cccaagcacg ttttacatca 120
gccagagtca ccattagtca ccacaaacca tcattggtct tcatgtaaaa cccacaccga 180
gaggaactct tca 193

ggctgcagct tgaagctgga gaaagctggt ttgttttgct ttacatgccc tactcccttg	60
agtggaattt gtattggtct gttctattaa atgttgcatc ttagtccata tcatatcttt	120
tgtgcatatg catcattgtg aataagtggg aagaaaattt ttaagttaga acaagttctt	180
cagaaggcaa aactctttgt tctaatactat tacagcctta ttgtaagcga ttacaaaagt	240
tgtctaaagc ttgtagagtt atgtctcgta tcgatttatt cacaaaagtt gtcatttaca	300
caattgcttt tagacaatga ttggcttatt caggagcctc tactataatc gattaccatg	360
tgatataatc gattacttct ctttcta	387

<400> 3614

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gctatagccc	ataaccaatc	ttgaccaatc	tcgacccatc	ctgggcatag	tcagtcagtg	120
agaacctgtg	atgtacctaa	gcaggcgagc	ttctggcagc	ctacagatat	aaggaacaaa	180
gaccacatag	caacgaagct	tgtgtggtgg	ctggccaact	gtgaaacttg	attgatatat	240
gg						242

<210>	3615
<211>	485
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      3615
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1532

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 agattttcat cacgattaga ttataggatt atgtaatact tatttttaaaa gttatatatta 360
 aaatattntt aatgaatatt gataagaaaa ctttacacca gtgtataaaa aataaaattg 420
 taaaaaaaaat tatgaaaata aaatattgca ttacnaatta naaggaaaac ataatatatta 480
 tttta 485

<210> 3616
 <211> 477
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3616

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 acaggaaagt gaaccattat gtcaaaaaac ttggaggaaa aatcatctct gattgacaaa 180
 gaatttcaat aatttgatgat tctatataat gcaaactctc tacctggatc actntctaac 240
 acaaagagcg aaagaaggat ccaaggtgaa ttaaaagatc aaccaccaca ctaggcattg 300
 tgcttctaata tgctatttgt aataagtaat gtaacatgat atgtgtatca tgactctngt 360
 agccagaata tttgtcagt atagcatgc attntgaaat atttggtgca ctcccatcta 420
 ngcaattggc atctttcaag ataccacana aaatagactt ctttnttgta gtcatta 477

<210> 3617
 <211> 189
 <212> DNA
 <213> Glycine max
 <400> 3617

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 tttgaattag cttctggtt aaagattaat ttggccaaa gccaatgtgg gggtattggg 180
 gatggtgat 189

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agcttgaata gatgtaaaaa atatcaatga aaactcactg cttcaagtga gattatacaa	60
acttctgaag tctctctcag cttgaagctt caacgacttt aacacgtacc tgctagctgt	120
at ttgcttgt agtgtttgaa tacaggtttt aatacatggt ttagacatat acatgtatat	180
ataaaaagta gtaacaatgt gctttacctg tacttgatat aatgaaacag cttccacaag	240
aacaccaatg gacaaaccaa cttcaactac aacaaagtaa ttcaccttca cctggagttc	300
atataatgag taatggcatt agaagaagtc aaagccaaac caacttcaag tacaacaaac	360
taattcagct ttttctcaac caaactatgt caaactactt gttggctatt aaaagtgtta	420
gttattcatg tgacgggcat actattctag tttctattc	459

<210>	3619
<211>	477
<212>	DNA
<213>	Glycine max

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atcttcttgg	aggaatcctt	ttcctctttt	tccttccctt	tggcctttga	agagaaggcc	180
ttactatcct	tctttttctt	ttgtttttct	agtttttctt	cctcatccct	attatctttc	240
atagttagtt	gatctttggc	cacctgtgaa	ggtgtttgag	gatgcaacac	anatttagtg	300
ccaagatggg	tgagggtaat	ctcattagtt	aggccatttt	aaatgatctt	cctatcanat	360
ttccatggcc	ttcctaaaag	aatatgcatt	gcctccatgg	gaactatata	acaattaact	420
tcaccctttt	atgtcccaat	ggagaaaagg	acctttactt	gttggttaat	tatcatt	477

1534

<223> unsure at all n locations
<400> 3620

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agctgtccta aactgtaggg aaaacaaaaa gtggggtagc acgtaccata gcagtacccc 180
atggactctt aatattggga agtctggaat ctcccaacat tntgagagac tttgggttgg 240
gatggcctag tcctaagcct ccacaccgca ctcttcactc tcgctacttg ctagtgttag 300
tggaatagagt gtattcccat acccataccc ataccatga tagtacaaac acaaacacaa 360
ctcaaaaccc cgtaaccgct aattaacgtc cttatatatc tcactctgctt ttttttggcg 420
gcacaaaaac cgcttcttcc cactctcntt catccatac 459

<210> 3621
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3621

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ggattntggc tgcagttatg attcttcagg ttttttttta ttaatttcca ccttgtttct 120
gttatgttgt tgatgcttaa gataagcgca tgattgtaaa tttgataaga tgttgtttcc 180
agagttctat ggatcctctg ttgggaacat tggcattatt atgtggatca tttgtctcct 240
tattgaagaa aatgcatagg ttgagattcc ttcgtcattt acgcagggtg gtccacttcc 300
ttgaattttg gaccttatta attntcaaca ataaaaattt tcttttcatt ntttttaatt 360
aagtagaaga acgaagggtt tctttttccc tgcagagggg gg 402

<210> 3622
<211> 463
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3622

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tagcctacaa gaaatgctta ttgtacacaa aaatgacatg ctaatccctc cggcttacaa 120
cgaactcatg tgcacgttta acgaaacaca tttatgcaca tgcatacgta acaatatacct 180
actattgatg tcaacatata aggacacca acacattcta attgccatac atctatgtgc 240
atcttgaata gagcacacat tctcatgctc aaggcgctgc gtcaaacttt acacctaagt 300
atatacctaaa tattttctat ttacaaacta cttacacata tttgaaatat atatcatata 360
aattgtattg tttcactcac atttatttat atgcatattg ganaactaat tatatacctgc 420
acacacactt gcattcaaga gggaatttca cgctatcatg tgt 463

<210> 3623
<211> 578
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3623

cgcccacct ccgtacacga aaccccgcca cgtcacaccn ncccttnnca gaaaaaaann 60
ntttgacgcc tgagaccctg caaacaacnc agcaangaga aacggcgacc cccacacggg 120
gacaaagcgg nttgcgggcg attgtgcaca acacgaacaa cagagacacg gagcgcgcat 180
aaaccaccca caccagggg accaccagca actaagcaca cgtacgccga cgcgggccat 240
aagcgcgagg gaccaacac cggcgcccca ccaatcctcc caagggaacc aacaaccaag 300
gaagccaaca cgcgaacagc acaaacaatc acagccacaa aaacagggca aaggcagaaa 360
actccggcca caacaccaac cagaacacaca gcgtggaccc acgcaaagac cgagtaaca 420
acgccaacga gccaaagagc gaaccgcagc gaacgcacgc gaacaccgac cggaagtccn 480
aagaacacaa gccgacaaag cgaccggtgg gatcaacgac catacagcgc agaacacaca 540
ccgaacaagg cgagacacag cccaccacac acacgccc 578

<210> 3624
<211> 231
<212> DNA
<213> Glycine max
<400> 3624

cagtggctgg attatgtgcg ctaatcacca ccgactatta tgtgccgatg tgacacgaat 60
ggagctcccc tagcgacatg tgaatgaaat cgccacaatt ttactgctta ctattaagaa 120

ataagggcgcc ggcggggggcc accactgaat gctcccatgg acaattatga acctaaaata 180
tccatgatg atgatgccca tgcttggact tccatcgca gcgtacgata c 231

<210> 3625
<211> 529
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3625

tgagtttggg cccctcgaga cccttcgaat accncgcact agctactagt cgagcttctc 60
aggaggcgag cgacgttatg agacgtttat gtgtatctat tctctacctt caccggaagt 120
gatctcgacc acccttttta acgtatgttc tctcaagaga gcatgatagt gaacctttct 180
gtcctataac ttggaggatg agtcacactc tgatggaact atgatgatag agagtcgtga 240
gagactcata ctccaagatt atctcctgta tctctttctt actccaagag cgagctaccg 300
atccatggtg atctacctgt atcttctacc tccctaggcg ctgcgcttct aagcttctta 360
tgcaatgctc atcgtggcgt ggatgtgcat catgactgtg gtattccata ttggagggcg 420
gctactctcg cctattgtaa tatgtgttgc gctgccttct cgcggtgtgg catctctaag 480
atccgaccta tagagactca ttattctagc tcatagaaac cgcttagct 529

<210> 3626
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3626

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ggtgtaattg tattggtctt aatcacacta cattgacata aagctatgat atttgacata 120
gcttttatac atttttttat tctccatact gaatcgtaa agttagaagc tttgcttttt 180
atcctctttt tgtgctagtt gtcacacag aataaaaaat gtaccagatt attcatgaat 240
caggactcag atttgancta atttgaatct ttagtaagta gttgctagtg ccactaatta 300
ttgaataatt gatttttggtt tatctacgtg atttactatt caaacatttg aatatggttg 360
cagaataaga gttgcaactt ctgatatgag aatgggtgctc tcagttatat gtctcatgtg 420

gcactttctt tctttcttgc atctaccatg a

451

<210> 3627
<211> 116
<212> DNA
<213> Glycine max

<400> 3627

gaatatcagc aaacgtagtt gcttcttagc agcatcctta tatacttttc cataattttt 60

cattcactgc tcatgcgctt acgacatgga tgcctcatgg aggtagcggg acatta 116

<210> 3628
<211> 103
<212> DNA
<213> Glycine max

<400> 3628

ctctacaag gacgaattct ttcattccac ttttggtatt tccaacactc cgcgaggact 60

atataggtgg gtaagacggt cgcgtcccta tcttctctat cac 103

<210> 3629
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3629

agcttattgg gagataattn tcaatcatca tttttatatg caatgacaat caacaaatct 60

caagatcaat cactagcatt tgtggggttg tacttgcta gaccgatgtt tagtcataaa 120

caattatatg tggcagtttc aagagttcaa agaaaacaaa gattaaagat cttaattcat 180

gacaaggaaa gaaaaccatt gaagtctgct actaatgttg ttttcaaaga ggtatttgaa 240

aacctttaat aagtatgtcc acaagtgtta ctaattctat ttgtatcaac tataatttga 300

tttacaatac tcgtatatct tatatgcaag tttcctcttg gagtggctgc attatttttg 360

gtccttggcc aaagttacat ttttctcttc tgaaatgtag atagatgcaa gtatcatggn 420

tcttaacata ttgcattggt ggaattatg 449

<210> 3630

<211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3630

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 gctcttatag actcttcatg tctggtcaag agaaccatta gaagagttat aacctttaga 120
 aaaactttaa aaaccatttg aaaaaagtga aaactatctg aagagttaca tcttttgatt 180
 ttgttcagaa actatcactg gtaatcgatt accacatcag tgtaatcgat tacacaaagc 240
 ttttttgtga aaggatgtga ctctntcaca attaaatttg aattccaacg gtcagacaca 300
 ctggtaatcg attaccaa at cattggaatc gattacaaca ttttgaaata atatggaacg 360
 ttgaaattca gatgaggctt ttgaaactat ttggtactgg aat 403

<210> 3631
 <211> 339
 <212> DNA
 <213> Glycine max
 <400> 3631

acgcttcac aagtggtaat cagagcttct gtatcttttt taggtgctcc ttacacctcc 60
 attaatTTTT tttctttacc ttctcttcca ttgttggttc ttcatttttc tccatgtatc 120
 tcctcacatg tcttggtcta aatgttggtta acatgattct ttagagtttc caccgattaa 180
 acttgctata gaagttagat ttgaatctct atgggtcaca tttcttggtc ttgttcttga 240
 accatgaatt gcgttgagtt taggttcctt tgagctttga ctagttattt tttgtggctg 300
 acacctaaac cctaaaattc ttacaaaaat attaaagca 339

<210> 3632
 <211> 401
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3632

cgaatcggac ctcaagtgtga anagttatga ctcttttgaa tncttctaga gctttcggtg 60
 gtcaatgtcg agcatctcga catattatgc gctcgaatca gacatccgtg tgaaaagtta 120

tgaccatttg aatttctcga gagcttccga tgtttaattt cgagcctctc gacatattat 180
 gcgcccgaat cggacatccg tgtgaaaagt tatgaacatt tgaatttctc gagagcttcg 240
 gatggttaat ttcgagcctc tcgacatatt atgcgcccga atcggacatt cgtgtgaaaa 300
 gttatgatca tttgaatata tcgagagcct tcgatgctta agttcgagcg gactcgatat 360
 atataagcct gaattgccct cagtgtctaa agtatgacca t 401

<210> 3633
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 3633

agtctttaca tgtcatggat ttactcttcg tttattgctc acgctctcca tgatggttta 60
 taaactatta tagaacatgc ctttctatga cgattattta aaatcgatgt gaaatttggt 120
 acgtttttac taaagatgac tcatttacat ctatgtttat gacggttttt ttggaaaact 180
 cattttgaga gtgtatcttc tctgactgac atatatatat atatatatat ctatatatat 240
 gtatatatat atatatatat tcacctact aaaaaagtat atagtggctg aaaaccctat 300
 cttataatac acttgttcca tacatatgaa 330

<210> 3634
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3634

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 gttgttataa gaaggaacc tcttaaata gatataatta ttgtgaaaaa ttagtcagtg 120
 acttttgacg gaagaatccc atgttcaccc actaatattt aagcccaact ttaatcttta 180
 ggaaaaaaaa taatcttaag acaatgatgt tagttaaccg atataagaat gttgtatttt 240
 tgtcaatcaa accaacaatgt acgatagaaa aggatacggg tgcaatgtta ttaaataatt 300
 agttgatctg attgaatatt ttaataattg agggactcaa ttgagctttt aattataatc 360
 aagacattaa ttatatatta agcctttgaa aagtataatg agctaattat atttaataaa 420
 taattaaatc gttggcatta atata 445

<210> 3635
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3635

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 actcctcacg tttgggaata acaccataac taaatgcgcc acaaggcatc cctatcgac 120
 cagatccaaa tctagaacga tgggtgatca agaggagaca caggaacaga tgaaagccga 180
 catgtcggct ctgaaagaac agatggcttc catgatggag gccatgtag gaatgaggca 240
 gctcatggag aanaaagtgg ccaccgctgt cgctgtcagt tcggctgccg aagcagaccc 300
 aactctcttg gaaccgtgcg ccaccctccc tcaaacatag tatgacggng aaggaacanc 360
 gctgggcacg acggctgtcg gaccttgccg cctcaataat cttagaggg ataggcttag 420
 aatat 425

<210> 3636
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 3636

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 tacgtgtata attggcatta atcatgtcat tttattttat gcaaaacaat atcaggtagt 120
 aagtgaacaa aaacctgtgg taggcctacg gttgtacttg gaaggcagaa aaagtgatag 180
 acttgcaata catgtacacc acctttcaag cctcccaaac actatgatct actcttcagg 240
 cacatcttcg tggcgaggat ctgatgacaa tgaatccagt gacatctttc tggaacctat 300
 aaggtggaag ggatttgcaa acgtgtgcac tgcagtgggc aaacatgacc ctacctggtt 360
 gcaagaaaca agtgggtggtg tttatattgt aaccggcgca caactcatta ttaaaggagc 420
 ttggccaaag aatgtgc 437

<210> 3637
 <211> 474
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3637

ctcaagcttt aagtgggtga tggaacagat atgaaacata ggtggacaat tggtattggt 60
tcttttgttt ggctggntat tacttacact aatagatttg gtcacatgtc ttcaaccact 120
aacgtctaaa tttttcttag cgatgatggg tttcccttaa ataaattaat actaatacta 180
tatgatacta tgattccaat atggacagag cttttgggtc tatctccaag ttcccccgat 240
gctgctatct tcacatcaaa ttcttcgaag acaacacctt cagcacctac aacaacaaac 300
tcgcatacca cgaccccgca gagccaaaac gcttctcatg gaagcatggg tcaacctagt 360
agtaccgtta cctatgtgat ggtgatggct ntggccattg ttctggttgc agttccaacc 420
gatactgtga gcatttatac atgatgcggc attatgccac tgtgaagaca gttg 474

<210> 3638

<211> 449

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3638

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actcgggtgag ctcacagagc tcctccacgt tttttgaacc cccatgaggt ctagacttca 120
cattaacatc gctgcttcca gcagtagctg attgtttaat cataggcaat tttgtacgca 180
aattaataaa gaacatactt gcctctgggt tgtgctccta ccaacaattt gttcaaaaca 240
ctattataat aagtaaaaga agttaacatg ataaatttaa attcttgtac tcaccacaag 300
gtcaagctcc attgctgaat atgatgcatt ttcatacata gctcttggct ctgcagcctc 360
cccatattct tggatcatca gaagagctat cagaanaaaa catgtgaagt taaagtcact 420
agcccactag atattgcaga gtatacata 449

<210> 3639

<211> 165

<212> DNA

<213> Glycine max

<400> 3639

ccgaagatgt tagctgtggg ttaagcattt aagattcaga gcaataattc tgtatagttc 60
 ggtcagcgac ttaagatttc cgctgtttca ccatggattc atggttccgc acaaggatga 120
 gcatggatag agttctttac gactgaataa ctgaataacg tggtt 165

<210> 3640
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 3640

cctgcggcat gcaagcttgg ttcgaggtac ttaccggtg aagatttatg tttgatttat 60
 aacgaatgaa gaacgggtga aacctttgcg agattcctca cggaaaacgt tacggaaacg 120
 tttcggaagt gctcggctt agattttctt cacggaaaca atttttccaa gcaaattcga 180
 aggagagaga agtgcctaag gggctggacc cttttcttct tcatttcctc ccctatttat 240
 agcaaaatag gggaggtggt tgccgccag ctcgccagg cgagctcagc tcgccaggc 300
 gagcaggggt gcttccttca gaagcaaccg tcttctggag gaatattcca gagggcccaa 360
 gtgggcctgg gtgctatt 378

<210> 3641
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3641

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 tttttatacc cctgttgac gtgcttaagc cattttactt aagtcgtttc tcgcttaact 120
 tagaaataaa ataaatttcc accgaacgtt tgaattgtat tatccattaa cttcgggttaa 180
 aataaattcc gaccgctcgg tcatgccgta accacgttgg aaatcaaaaa agaggtaata 240
 aataatatta ataatacaaa aaataacatc ttttagtaaa ataaagcgga aaatcaatcg 300
 gacgttttct ctttggaat tctcattctt aatcgaattg attaataact aaagtgaac 360
 taaggctaaa atcaaatcgc ctagtcaagc tctgtcacia aaatagggtt ttgaagtccg 420
 tcatttcaat cttccactaa gtaaaatgga tca 453

<210> 3642
 <211> 208
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3642

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 tctaaaacat tntcaaacta aataattgag actcatcaat acactcatcc acacgctgaa 120
 tttatgatcc atatcatcaa tgaaacttga gttaagtgcc ttttattttc tactactact 180
 gtcttctata cactacacgt ttcactta 208

<210> 3643
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 3643

gctgacttat taagatgatg acaaaggtga tgaacaaaaa actcatagat caatcaaaga 60
 acaactctag tgaatcatag aacatctcaa gtgaatcaag aacaagtcta gagttcaaga 120
 taagaatcaa gaagaattca agactcacga agaaagtcta gagtcaagaa tcaagattca 180
 aggttcaaga tctcaagaat caagactcag agattcatga atgaagagaa gactcgatca 240
 agataagtat taaaaagttc tttcataact ttgaatagca catgagtttt tgacaaaacc 300
 ttttaccaca gaggttttac tctctcataa tcgattacca tattggttga atgcgatacc 360
 agtagcaaaa tgagtttgaa aaagttttca aactggaatt acaacgttcc aattattttc 420
 aaacggctta atcgatta 438

<210> 3644
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 3644

agcttatcta tttcttttga tgaacttcaa gattcatttt taacttgcac aaagaatctg 60
 tcaaacttgc caaattattt tcatttttcta agaaaactat tttaaattta gaaaagaaag 120
 ttttgaaatt aaatgtagaa ttataaaatc ttaaagcaga agttaaaaca ttaaaaccaa 180

<223> unsure at all n locations
<400> 3647

tggtgccaac atgttggttaa cctgggttttc atttttttgc cttctttctg caccacacctt 60
ccttctcctt cgacacacaa gttntgcttc gggatccacc attggcttat ggttgaagtg 120
ttatggatca attgtagaca tgtctatagg ggtccaagca aaaatattca tattttctgt 180
caaaaagtga gatagtttct ctaagatagg cggnggcaac tcagatccta ccttgacaat 240
cttcatctct tctgggtccga ttttactta cgagagctct ctttcaggaa ttgggtcttc 300
gtgttggtcca ttatgctcct tgggtctaca atccaattct tttatcagaa tctattattt 360
gcctgggatc aaaactagct tcttaaacaa agctg 395

<210> 3648
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3648

agctntacag cagatttttag taatgactca ctatcctata attaaaataa cttaatgcca 60
ttaacctagg gaattaaaaa aaacttaatg gctgagtgtta attgaaattg tggcaaccaa 120
aagtcacccc caacagccaa caagtcagcc accatttgggt ctcccaaaag gctgatgcct 180
aggttgccaa ttggggccctt attataactt gaactaaacc taactaaagc ctttttagtt 240
gattaaccca aaacatatatt ttggtcagcc aactttacaa ggattggggc attatttaga 300
caaactaaac actctaaaat tgagacaaaag tgggtgtcatt tagtctctct ccatttgggc 360
catgatacaa ctcacaacct tggacttttc tcttgaaac ttgngcttgt attcaaatag 420
tatggaca 428

<210> 3649
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3649

tgtatacgct acaacgaatg atttctgggg cttattanaa ttatatcaca gctntgtggc 60
tcttacaaat agattagaac cttttgaaca ttttacatat tttttacatt cactttcagt 120

ttttaatgag ataggcctgc ttgtatccga tcaatgtctc tctcatttg

409

<210> 3652
<211> 476
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3652

ntgagacctt tagccttgag nactgacaac acacacagcc taaaaggat atacttgaac 60
aacattttgc agtttatcaa atatttacga ggcattggca ctcaagttca aacatgtgac 120
atggccattg atgctacgtt tagaaatata cttatagcta tgttatcctt gccatgtatg 180
gtgataacat cgtgattgca cgatgtagta tgacagagat taacacgttt gagcagctct 240
tggcacaaaa ctcttaaaag aatgatcctg gtccatctaa aataatcatt ggtatgagaa 300
ttcttagact cagaatagaa cgaatttctg agatgcctta tgagacatat atacacaagt 360
tgcttacaag tttaccttgt agatttagac cagaatagcc tttggattca ttgaagtttt 420
gaaaagaatc tttgctacag ataacaaaat gtaactgtag atgccttgct tagccg 476

<210> 3653
<211> 329
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3653

agcttatccn cacaagagtg cagaacatct ggtgatgtct gcattgatta taggaggctg 60
aatcaggtaa ctagaaaaga tcattttccc ctgcctttca ttgatcaa at gcttgagcgc 120
ttggcaagta agtctcatta ctattttctt gatgggtttt ctgggtattt acaaattcat 180
attgctcttg aggatcaaga aaagaccaca ttcacctgct cctttggcag ttttgccat 240
aggaggatgc cctttggcct atgcaatgcc cttggtaacct tccagcggtg tatgcttagc 300
attttcagtg attttttaca gacttgcat 329

<210> 3654
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3654

ctataaaaact aagcttttgcc tcnaacatat tatttccaac ttccaatgct ctgngaatacg 60
attacaaggc aatgtaatcg attaccagaa gacaattttg aaaaacaact tttaaaaaag 120
gttttgaatt taaattttga atcatgtaat cgattatcag atgtttgtaa tcgattacca 180
acaacggcac ttcagtaaac actttgaaaa gtcatgaccc ttcaaaatat aattgtgtaa 240
tcaattacca aaaacctgta atcgattacc agtgaagagt tttaggaaaa atcttttgaa 300
aagacacatc tctccaaacc attttgaaaa ggcacgaagg gcctatatat gtgtgtgtct 360
gac 363

<210> 3655
<211> 601
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3655

ccctcccca cncacccact cantcttca ntgncgtcac acgttgggng aacacgnnnc 60
gannnncagt cccccaacc acnnntttag tegtgtgagg cgctgcacna ccgcgnancg 120
cnagaacgac ccgaggcaag cagacccgac ggagcagaga tcaatcatcc gtttgtcatc 180
accacacaag gggagaaagc gagtgaatga agacacgacc ccgacgccga cgaaagaaga 240
accaaacacg acccaggtc gctgcacaga acaacacaaa accgcccccc caaacaacgc 300
ccagagcgca gaagcccacg cgaccaagcc gtcgctcaca atgaaaggac ncaagccaga 360
caaggcacat cgaagcgaat acccccacag gcaaccgccg accaacggcc cgaacacgca 420
gcagccgcta caccacacaa gccaaacct accagagaca cacaagcggt tgaaacacaa 480
ccctacacca agcggggcaa cagaccaga caaaccacgg acgaaccac cccactcacg 540
cgcacggaga ccaccacgca aggcgcgaca ncggcaaaca cgccccgcgc caccacgcc 600
c 601

<210> 3656
<211> 252
<212> DNA
<213> Glycine max

<400> 3656

agcttattaa cattaagggg tgtgattctg tattcttata gcacgacctt gataaaacac 60
tcgttgacgt atttatTTTT ttggttcaat tttcactcgc atattatcct attttcagct 120
atgccgtata ggctactgaa ttatatgtac gggttctctt ttacatgttt gacaattgag 180
actggataga ttattctatc agggccgatg agtgaaagtt tttcacactt atttgttgct 240
gagcacctct tg 252

<210> 3657

<211> 510

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3657

ttgaagacct gtgtgagcat tgatagtctt gtaganacnc gcacatagac aactaagcgt 60
acaaagtnga gaagaatatt ctanagccac tattaagaat acatataggg tacacaacaa 120
ggtaatatata ccagctactc ctcaattata tatatataag cctcaatgca acccctcaca 180
tgttacatcc aacccttgta ttattaagaa gaggaagac aaacttatat tatggtaaga 240
gagataacca atcatacaag ctagtatgta tatgtatcac gtaacatgag ctgtgaaaaa 300
agaaataccg tacactgaac ataaagcgta taccagaata tcgctgctcg tgaaagacag 360
acatcttttg ctaccaactt attatgctaa ttatataggg cactccgtca agaaaaagta 420
cagaaatgat tacttatcga tggatgtaat cggttcgagc aatgagctta aagcaagtgg 480
ccttctagag caaacctaatt attatgtccg 510

<210> 3658

<211> 345

<212> DNA

<213> Glycine max

<400> 3658

agcttgtaga atggctagac atgatacatg tcttggtttg gtttgtttca aggataaaag 60
ggatgcccga cattatttcc atgacacaaa tgcaaaaatg atgatttgga aactttatgc 120
aaaactggtc atgcatgcac ctatgcgaac actcaagtgt caaattttta tggatcatgtg 180
atgctagggc tcaggattcg tttcctctat tttaatcaac ccaatgtttc caaaatatgt 240

tcttttatca atttgtgcat tcatccgagt ccatttcggg cgtccgggga aatttcacag 300
cattcacct tcaggtgata cacattttca aaaattggta tgatc 345

<210> 3659
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3659

ctgatgatgt caaaaagaaa tcacatgttt gtcatcatca attacggtga gaatgtgaat 60
gtatgtatac atgattntga tgatgtcaaa agaagaatca aacaaggctc attttgcttc 120
aagattaata caagattatt tcaacaaaca aagtcttgat tcaagatttc ttcaagatca 180
agccttgctt cacaatgaaa ggtttcaagt cattcaaggc acatgtaatc gattaccaat 240
acatgtaatc gattaccaat ggtttgaaag tgtgtaatcg attacacatc atatgtaatc 300
gattaccaga gactctgaac gttgggaatc canattttta atgaaaggctc acaactgttc 360
aagaaaaaca cctgtgtaat cgattacact aattctgtgt cgatatccaa agaggattat 420
caacgtatgt ctntccagt catatcc 447

<210> 3660
<211> 210
<212> DNA
<213> Glycine max

<400> 3660

cgcacatcgt tcgagcgac gacatttcac ttacaagga gcgaagcaga ggagaccttc 60
gattctatta ctaccgcga cgcacaaaag tgggcagtta acttgaacgg tcattattgc 120
caacgcggaa cgcattctgc gttcactat ccattgtcac atattattgc agctcgtggt 180
tacgcgcgcc cgaactacta ccactctata 210

<210> 3661
<211> 382
<212> DNA
<213> Glycine max

<400> 3661

ctcaagctag agttcctcac gtacagtaaa gtggcaaaaa aatttcccca ttaatataat 60
 tgtcctatac aatcgactg agcaactata tcaccgagac cttcgcatca ttgcatgaca 120
 tacttcataa atatgtgagt tagaataaaa atgttgact ctttaaggggt tactgctggc 180
 agccaccata ctgaccacaa tatccatctc tatgtgatgc acgcgaccca cacttaagtt 240
 ttacatgca aaccatccaa accacatggg caggtacaca cttaaacaca atcacacaca 300
 ttggaaatat atgaacgatc aaaatggaga aaatcaaat ccgaatctgc cttataacat 360
 ctggcacaag tctttgcttt ga 382

<210> 3662
 <211> 474
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3662

gtcacctgcg gcatgcaagc ttctcttggc ccttaggcaa accttcagct catccttcat 60
 tatcaaactg nctactcgtg attgggtccct ttctctctc cgaagcttaa gctcactgtt 120
 actgccccac agagccctc ggaatttggt cgggccgtgt tcttcctac gagccctttt 180
 ggtctcttgt tctaaggcct tgggtgtagc tatatttaca tctctcagtt cggcattctc 240
 ctttcggatc ttaagagctg ctgatttgaa cttttctttg actgtttggg cttgctcgag 300
 ttctgctcta agggcctgca cctcttcgtc ttctccggt gcctcaactt cctccccttt 360
 agtggttctc aaactcggga gccaatccaa accttgcagc tgggctttca accacttacg 420
 gtagctaccg acgttggttac tgcctctgag ttctttgtcc ttcttttgca ccat 474

<210> 3663
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3663

gatgaganag tgtagaacgg tgaaacttcc tgcttttatt tgttgaccac atagtggttt 60
 ctggagatat gtncgcgggg tcaagagacc ttgtggacgt caggtggggg gctattgccc 120
 aaaaccaagc ttgaccaatc ccgacccaac ccatgcatag tcagtcagtg agaactgtg 180

atgtacctaa acaggcgagc tcctggaagt caacagataa aaggaactaa gaccacaaag 240
 caaggaggct tgtgtggtgg ctggccagct gtgaactttg tgtgatatat gggttattgc 300
 ctctagtaat cgattaccaa ggggtgagtaa tcgattacaa gcttataaat gaacgcagga 360
 ggctaagatg gtctctggta atcgattacc aaggtgtgta atcgattacc aggcttgaaa 420
 acgaggtcac gaagcta 437

<210> 3664
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3664

agctntgaag agtgttgttn ttcaccttct cgctaagttt atatgctggc ttagcgagct 60
 tctgctatgc gcaacactca tgggctaagc gtgaggaaga ctctggaaga agatgagcta 120
 tacaggttca ctaagcgac tgcttcatct cactaagcgc accgcttcag ttcattccgct 180
 aagcgagaat ggcacgtgca agccaaaatt cactattgtg tgctaagcgg tccataattg 240
 cgctaagcgc acgagcacga acaaggccac ctattttaagc ctgaaatcag attttagaag 300
 ggagtttgga ctgggattca gagctttgca tgtctagagt ttctagagag agaaaggctc 360
 aagttccaga gagttttgag agattttgct gtgtgaagat ctgcagagac cagagcttga 420
 agcaggagcc gatttgagag ctcgagatga gtttgtga 458

<210> 3665
 <211> 474
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3665

tgctctnatt tacattgatg tttgtattta tgggaggagg ttatatgcca tttttgcttt 60
 aagagtaatg tcccacaaaa actaactttc caaatgtttg ccttcgcagg aatggcacgg 120
 aggaagcttg cctcaaagag gtccaggaag gacaaggcgg ccgaaggaac tagttccgcc 180
 ccggagtacg acagtcaccg ctttaggagc gttgtacatc agcagcgctt cgaagccatc 240
 aagggatggg cgttttctccg ggagcgacgc gtccagctca tggacgacga gtatactgat 300

ttccaggagg aaatagggcg ccggcggtgg gcaccactgg ttactcccat tggccaagtt 360
 gatccagaaa tagtccttga gttttacgcc aatgcttggc caacagagga aggcgtgcgt 420
 gacatgaggt cctgtgttag gggtcagtgg atcccgtcga tgccgacgct atca 474

<210> 3666
 <211> 595
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3666

cactccccta cactncctnc cagntancta cgcgtcctca ccnntcccta aaaatttgct 60
 aatacggten cnactaccaa cncncnnccn nnattgaatc atcccctcgc acgncnnncn 120
 anatcnanac gcagcaggca ggcgcnaca caactagaac aagacagcga gttgacgttg 180
 gagaaccacg aaccgcacga cttggacacg cactaatgaa acaaatccgc acaccgcatc 240
 aacagatgaa cccgacgcag gggggcccag agaaatgaca ccacacaagc atgcacgtac 300
 aaagagcaag tcaaaagccc atacggctgt tagnggccat gaaccaagca cacccaaccc 360
 acaggtcggc agagatgcct atctaaagcc gccgattgac gaatgggaga agctagggag 420
 ccgccgccgg acacaggatg tgacaaggaa gcaaaactcg acgaggacta taaacgactc 480
 ccctactcat ggcacgacgt ccggctgcgg aaccacgac acaacctccc gcccgcacccg 540
 cacggagcac aagaagccgc tacaccacaa cacgagagga aagcagacca caccc 595

<210> 3667
 <211> 387
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3667

catacaatat ttagacaaaa actcgcctaa tagcatgaaa agaaattact gaaggcaatg 60
 catatttaag tgcaaaacca ataagaatat acaatgaagg cgatgcgaat ttaagtgcaa 120
 aacaaaaata aatatacaat gaaggcaatg caaatttaag tgcataacca aaaaaaaat 180
 atacaagcag aaccaacatt ttcaatcatt gtctcaatat ttccaggatt tntagtctgc 240
 atacagaaaa caagcaaatt aaaattttat taaatggtga tctcaaataa aaattacatt 300

agatatgac gaatcattac ttcagacatt cttggtataa tgactcagat gacactgaat 360
agaaccacct acgacggtgt caacgat 387

<210> 3668
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3668

agcttataat atattattac gctcgaatgt attcatcaga agctctcgag aaattcaaatt 60
ggtcataact tttcaccggt atgtccgatt atggcgaatc acatctcgag acgctcaaaa 120
ttgaacaacg gaagctcttg agaaattcta atggtcataa cttttaactc ggatgtccga 180
ttcacgcgca tcacatattg aggcgctcga naaggaacaa cggaagctct cgagaaattc 240
aaatgggtcat aactnttcac actgagggtcc gattcaggat tataatatat caagacgctc 300
gaaattaaaa atcggaagct ctcgagaaat tcaattgggtc atcacttttc acacggatgt 360
ccgatttggg tgcataatat gtcgacacgc tcgaaattga caacggaagc tctcgagaaa 420
ttaaatgggc ataactttat actgagggtcg atc 453

<210> 3669
<211> 385
<212> DNA
<213> Glycine max

<400> 3669

actcagcttg ccgcacggac gtgtccgact atgctctatt cgtggggaac atgctacgaa 60
aggagagagc acgagatgaa gagccaatgg ttgatacatg gacggagatg aagatgatca 120
tgaggaagcg gattgtgccg gctagctact caagggactt gaaattcatg ctctcaaac 180
taaccaagg caacgaagg gttgaggagt atttcagga tatggatgtg ctcatgattc 240
atgcaaatat tgaccaatat gaggaggag ctatggctcg atctcttaat gtgttgacta 300
atgacatacg cgatattgtt gagctgcacg agtttgttga aatggatgat ttgcttcaca 360
aagcaatcca agtgagcaa caatt 385

<210> 3670
<211> 441

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3670

 ttaagacacc cgcgccatgc aagcttgacc aatcccgacc caacctgttc atattagttt 60
 gtgagaacct gngatgtacc taaacaggcg agtcctggc agtcaacaga taaaaggaac 120
 aaagaccaca aagcaaggag gcttgtgtgg tggctggcca gcggtgaact tggattgata 180
 tatgggatat gggctctggt aatcgattac caagggtggg taatcgatta caaggcttaa 240
 aaatgaagac aggaggctaa gatagtctct ggtaatcgat tacattgaaa acgaggtcag 300
 gaagctaggg gagcttctgg taatcgatta ccaggggatg taatcgatta ccacgcttca 360
 caagagaact ggaagactgt ggagacctct ggtaattgat taccagtctg tgtaatcgat 420
 tacacagagg gatgtgtcac t 441

<210> 3671
 <211> 434
 <212> DNA
 <213> Glycine max

 <400> 3671

 ctcagcttag atgggatcat tgaaaaatag atatatcttg atttctttaa tgtttaatga 60
 atactctgat attgatgggc ttgatttatt ctcaaatg acagtactaa gagaagtgtt 120
 aagagaagaa attagcacac caatagaact attgagttat attaaaactc tatattcttt 180
 tccaaatggt tacattgcat ataaaattct attgacaatc tttgtaacag ttgctactgc 240
 tgaaagacgt tttgaaaaaa agttgttcat aacatacaca gaataaagat gatctatatt 300
 gcatctaaat tatattttaa taaacggcat attaaatgtg tacatgttaa ttgaagcatt 360
 caaataattg gtgttacgag agaatgagaa gagaagtgat aacttggtac ttcaacgtgg 420
 agcctaagaa tgta 434

<210> 3672
 <211> 467
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3672

ttaagtcgac gcggtcgcag ctgctaagac cgatatnggt tcttattttg ttctcatgng 60
ctccttttct taaactgaga accccattgg ttggttcata taaacattct cctcaaaatc 120
tccattaaga aagacagttt tcacatccat ctaatgtagc tccaagtcac aatgggctat 180
taatgccatg ataatcctga aagaatcctt tcatgagaac ggcgaaaatg tctcttaata 240
atcaatgtca tctttttgag taaaatccct tagtaacaag tctagcattg taatgttcaa 300
ggttgccatg agagtcattg ttagtcttga agaccactt tcaactaact ctcttataac 360
cctttggtaa ttctacaagg tcccaaatat cattatgtgc catggaattt atctcttctt 420
tcatgggtatt taaccacttc tcagaatcat cacagcttgc agcttgc 467

<210> 3673
<211> 301
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3673

ctcagcttgt gatcctgac tacagacgac tcggttttat gctcttggtc ttaactatat 60
ctaggncaga tatatgctat tgtgtgcaca aattatatca acttgtcttc aaccctata 120
cgaaccacat gcatgctact aacatgtctc ttcggtacct taagcacact gttattcaag 180
gtattttttt tatggccaac ttatacaca aattacatgc atatgtggat gcagattaac 240
gatcatgttc tgaaagttaa agatcaacca ctggcttctg tatcttctta gaaattcctt 300
g 301

<210> 3674
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3674

agcttcanac ttcgntgcat ctaaccacta tctctnttct tcactttcca tggcctctct 60
aaagcactca ggttctccat catctgtag gatcacatac tcattagtag aatacctatt 120
agaaggttgt ctttccttgt tggacctcct gagttgaact tgaggtggct cgatagcacc 180
accaagattt tcacttctgt acatgtcatg ctctcttcca tacatcattt tgaacatcag 240

tatttagatt ctgaatatgc ggctgaactg gttcaaaatc aaccacacca acattgtctt 300
 ccttgggtgt agacttcttc accttatcaa tgtcttgaat ggtttgggtct ttcattgaatt 360
 tcacatcacg gcttctgaca agcttcttct caacaggatc atataacctg taaccaaatt 420
 cattctcatc ataaccaatg aagatacatt 450

<210> 3675
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3675

ctgttgcaga ggtgccccaa ccttatcttt gatcatggng ctcaaccgca taagttctat 60
 agtggtttga gatctcaaac ccagatgata cttgatgcct caactagagg cactatgatg 120
 tccaagagtt cggaggaagc tattgccatc attgggtcca tatcagctag cgattatcaa 180
 agacattatg atagagctcc aactaaaga aaaggtataa tggaggtaga cactcatagt 240
 gcaattctag ctcaaaacac actcttgacg cagcaaattg aggccttagc aaagcagata 300
 gccaacgttc tcacaatatt accaatgtgg accacaaaaa acacatcaag ctcaccaagt 360
 tcaacaaatt ntgatatgtg att 383

<210> 3676
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3676

agcttcattg cttcatgatg ttgaatttag attgattcaa ggngctctga tgataacaaa 60
 gatgatggca aaaagcccat gagaatgatt tcaagattga gtcaagaaca attcatgaat 120
 ctagagaaaag attcacgaga agtttcaagt ttcaagtttt caagaatcaa gaataatcaa 180
 gatcaagatt caagactcaa gattcaagaa tcaagaaaag gctcactcaa gataagtaca 240
 aaaaagtttt tcacaacatt gagtagcaca tgaagttttc acaaaagctt ttaccaaaga 300
 gtttttactc tcgggtaatc gagataatca attaccggtt tactgtaatc gattaccaat 360
 ggcaactttt tgtttcaaaa agctttcaac tgtgattata acgttccaat 410

<210> 3677
 <211> 503
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3677

tgttagccct tanncttgaa ntectgaana cggacacaag atactcagct tttctatata 60
 taggcgcac t tatatgtact ttgacatatt atcgccggag cttcacggtg cgtgcgctga 120
 ggtctcgaga ctgctacaac acttaatgct cgcatttaac gaacagtcct tcttacatgc 180
 cagaaccatg cttgataggt aacgcacgtc ttggacttta ctaagaaagc cacttattcc 240
 atataatagc tacgcactag caaatcatgc cttttgatga agaaacatat ctatcacact 300
 gcagacttca cttacttctt catagaactt tgacatatcc caggagaatg ttttatgccca 360
 gaaagacact tacacgccga ctattatatg acgatcttaa aagcactccc taatgtaatg 420
 ctgaatgcct atatggacgt gtgttcgaaa ctcgaccgca gaatcaaata atgatcgtaa 480
 cacattcctt accctaattc tcg 503

<210> 3678
 <211> 210
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3678

gctctgcagt tgaccttcag cttcttcnat tgagcaggac gaccaccttc atcagtggat 60
 aacacctcat tctaaggctc ataatgctct tctcctcct tcttctcttc ctcataatat 120
 tcgtccgagg tctcatgaaa aacgtcataa tctaattggct catcaaaagg gtcctcttct 180
 aactctctca ctttatgcta aggggatact 210

<210> 3679
 <211> 228
 <212> DNA
 <213> Glycine max

<400> 3679

agcttcgaca ttcaatatcg agcgtttcga taatttactg gacttaataca gacatccgag 60

taaaaagtta ttgtagtttg aagttgctca gagcttcaac attcaatata gagcgtttcg 120
 atatattacg ggactaaatc agacatcaga gtaaaaagtt attgtcgttt gaattatctc 180
 agagcttcgg cattcaagtc cgagcgtctc gatttattac gggactca 228

<210> 3680
 <211> 333
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3680

actcaagctc tgaggaactt canacaacaa caactntnta ctcggatgtc ttattgagac 60
 ccgtaatata tccagacact cgaaattgaa taccgaagct ctgagcaaatt ttaaacgaca 120
 atacgttttt actcgtatgt tcgattgagt cccgtaatat attgaatcgc tcgaaattga 180
 agaccgaagc tctgagcaaa ttcaaacagc aataaatttt tacttgatg tctgattgag 240
 tcccgtagta tatcgagacg cttcgacttg aatgccgaag ctctgagtaa attcaaacga 300
 caataacttt tttcctcgga tggctgattg agt 333

<210> 3681
 <211> 260
 <212> DNA
 <213> Glycine max
 <400> 3681

ctaagtcacc tgcggcatgc aagcttgtaa gagatctgaa cagaatatta gaatggattt 60
 tatttgataa acaccaacg tggtatcaaa tacttataaa aagagagcaa atgtagatat 120
 gatacgagtt tatgatatga ttgaaagaca gatatagaga gagacactgg aggtgctggc 180
 gtgctgttcc attgctcact attctccgtg ctatctctcc catcacttcc ctgctttaca 240
 ctgacgctcc ttattctccc 260

<210> 3682
 <211> 262
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3682

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 cttctctctc tctcgaaata gctgaggaaa attagttccg tgaagaanat ccaagccgag 120
 gcgcttccgt aacgtttccg tgagtaatta cgcgaagatt ctcgaccgtt cttcaagatt 180
 catcattcgt tcttcgtttt cttcagttctt cgactggtaa gtacctcaga ccaagctctt 240
 caattcattc tatgtacccg tg 262

<210> 3683
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3683

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 ttaaccctta tttatttatg agaaatgctc tcttggtcaa caactaacat tttgtcttta 180
 attgcataac atatgacaac tagtggtgga agtttcatgg acacaaattc ttgatgaaac 240
 tctaactttt ggaaagtttg tttgtctgag cctttgttag ctactaactc agctaatacat 300
 gggccatcct ttgatttatc tacgggcatg catatgctta gactatgcat ttaatttgga 360
 aatatactga atgctccaaa ttagtatgtg ctatctattg cacaaccagc attcgtgtca 420
 taaatggtga aattccaatt agacaagctc gagaatat 458

<210> 3684
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3684

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 gagtgagtgc acgttctaata aatcccacgc acattatttg ttgtataatg ttgtaattat 180
 tgtaaactag aacaactcta tgattaccat attgctagac atatttttag gaaaataatt 240
 atgtagcttt atatgaatta taaagaccag tactatttaa aattattaat aatattggat 300

agacctaact ttggggccatt ttcattactg tctcaatcaa ggagaaaagt ttanagaaaa 360
 cagttgcact tctggacgca tgctgggtatc tgtattggca tgcattatatt tcaacattgc 420
 atttctaaaa tgcaggggaa taattgctta acttatatat t 461

<210> 3685
 <211> 458
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3685

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 gaagtcacc aatagagggc atacccttga aagctaagg tagccaatgg aaattttctc 180
 tctttgctaa tatgatgaca agcaaagagt tgttcaacct tcatttccca atctaggtag 240
 ggctcaacat tatctttttc atggaaatat gggaggctaa tgtaaacctc ttgaggccgt 300
 ctatcattnt ctcttctttg ggaatgggtg ttagtatgtg aactatgggtg tcctctataa 360
 tagtcgctaa gttcttcact taaactcttg caagagtcatt gattgctata ggagacatgn 420
 ttttttcttt tcatttcttt cattattttt cttctttc 458

<210> 3686
 <211> 481
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3686

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 tgttgctctc ttaaagcttc aatgatgact attgaagtgg aggcactca actaaaaaac 180
 ttatggaaga agcataaaaa ggtgataatt gtcgagtcatt gacagctagt agagtcattc 240
 tgagattgtc attatgagga gaccttttta tgagctttct aaagatacat caaatgggtg 300
 attctaattg taactgagaa aagatctatg ctgaagcaca tccttttgat gaagtacaac 360
 tganatggct ctctgaaata acatagcttc atcatgctta acacatcttc acaaagcatt 420

ctaaattagt ttgcatcata aatagaaatt gaaggaacag ttattagtct gttgggtgtct 480
a 481

<210> 3687
<211> 173
<212> DNA
<213> Glycine max

<400> 3687

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tgcgcaatat gcacattcag ctcaaateca tgaaacgaaa cacacattgc atcgtaagca 120
agcattctat acaagacaag gcattcggcc attataactt actaagaaat cta 173

<210> 3688
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3688

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ccttgttgcc caaatccctt tgatctctaa gtacatcagc caatacacgt tccatttcca 120
aattctatgt aaaataactt ctgcttcct cattattttt tctaaaaact attcttttgt 180
ctgtcatttt ttcattagat gactccattg aagttaatgt cacttattca acctgcacat 240
aacaatatatt agatataacc tactttattc atttgactag tccactgcac aatcatagaa 300
aatatttcaa gcaaagtttt tatgcaatag caaagtacaa aatattgtat cttcaataga 360
taagtacaat agtaacaacg cacacaaagt ttgtctgcgt tagcaaatta caattaaaag 420
agaactattc ct 432

<210> 3689
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3689

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tcttccacta cgcctcgagc tttacctata tgtgcaatca tatcatggct gatctgtttg 120
 agtgtagcaa ctttttgggt tgcataaaaa aactttcaat attattggca aatatctctt 180
 gggccttctt cctaaaagag caacatgttt tgaatgatct aaggatttcc aaaacatccg 240
 gctcaacaga ttgccacaac acaacacata gttgaaagtc aagttnttcc cactcagatt 300
 tcttggttgt tgggacagca ctagctcctt tttccaagt gtcattgat ccttggccaa 360
 gaaaccacaa ctccacttag gcagaccaag aaaagtagtt cttcccagtg agtnttgcaa 420
 tagtgatggg gngggttcta gagaag 446

<210> 3690
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3690

tatacanaag aaaagtatgg atcgtgggtg cttgtataag tatatatgta ctcaacaagt 60
 atgagaataa ggattaaaat tgttactcgg atgaatatga gtacaagtat tgtttttaa 120
 cgcggttata gaactggtaa ttttattacc atattatttt taaagtagat tatgagaagg 180
 catatgattc ggtgagttag aatttttttt gtatatattg aaaagattgg gctttaatga 240
 tacatggatt aaatggatac atgggtgtct ttcactctcc ttagtctatt attggcaacg 300
 gaagtccttc caagaaattc atgcttcaac aggggttaag acaaggatgat tctcttgcac 360
 cttttctttt tacaattgta actgaatgat taagtggcat gatgagagag gtttgtgata 420
 aaatcttttt gaaaattata acgtgggaga gaaaaagatt gaatatg 467

<210> 3691
 <211> 329
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3691

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 cttgcattgt atacttgtct gattgttgta taactattga catcgtgctc ctttaacgtt 120
 agaagaatat ttcttgggtt caccattgac tttgtaatat cagcaataat aatcttctca 180

tccttagtca atcgaccaac atatggatgt ccaactaatg acttgaccaa ttcattgattg 240
 tgacattcac acattaactt caccattcat cctttgcctt ccaccactgg ttttacacgc 300
 agcttaaagg cacacccaca ttttctact 329

<210> 3692
 <211> 206
 <212> DNA
 <213> Glycine max

<400> 3692

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 cgcggaacga gaccgccttc tttcgacggc caaccttgat cttggagggc tggatggagg 120
 actctgacct tgcaacatga actcgtccaa tatggtcac accaaggcca ctctcatata 180
 tcatatcatt cagactctta gacacc 206

<210> 3693
 <211> 243
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3693

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 tgggtacctgg agatatgtcg cggggggtctg gagaccttgg ggacgtcagg tgggggtgcta 120
 ttgccccaaa ccaagcttga ccaatcccg cccaaccgg gcatagtcgg tcagcgagaa 180
 cctgtgatgt acctaagcag gcgagctcct agcagtctac agattaatgg aaaacaggac 240
 cac 243

<210> 3694
 <211> 218
 <212> DNA
 <213> Glycine max

<400> 3694

gtaaggcctt gctctgtttt ttgcacttta ttgaacttta ggagagagaa ccttagatga 60
 agtttttagat ttttagggac ataccggttt acaagcagtt aacattctac gacttttcac 120

atagttttgca gtatatacat tgaactgacg gttgtgcatg cttgatatgc ctgtttgagg 180
tcttggaaca caaggaaaac aagcatgttt ttctgcat 218

<210> 3695
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3695

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ttcctttttac cctcggaaga gggaacaaaa ggatctccca agaaagaaga tccattcaca 120
gttaagctga aaatgtgctt tgaaagcaaa agagaaaaaa gaaagggtccc gggcaaagggt 180
tggaagaaag caaaagaaaa ataaagttcc cgatcaaaga tcgaaagata gaaaagaaaa 240
agaaattccc aatccaagat tagaagaaaa caaaagaaat atatagaaag gtctttgacc 300
agacaatatc tgaataacat tcaggattgt cacaacaag aaaaggaaag aaaggaaacc 360
agagctggtg acacatgaag cagtccccctt ttgattacca accaaaatcc tttgcgttga 420
caactctttc accctacgct aaacataaac aaa 453

<210> 3696
<211> 257
<212> DNA
<213> Glycine max

<400> 3696

aaaatggatc attattaagg tccaacgcct tataatgatc acctttcaag taaaaagaat 60
cacttgattc acgcataaga aagaactacg taggtctgat ttctctctcg atggagggta 120
cgtaggagca aaagccccgc ttttgtcgac ctcaaaaaat aaaaagaact aaaagttaag 180
ataacacaat ttccataatt ctgagaaata ggttggtgtc ctttgagaca cacgtgagag 240
gtgctaatac ctttctc 257

<210> 3697
<211> 134
<212> DNA
<213> Glycine max

<400> 3697

<400> 3700

tgcgtcggag ggtacatctc accatcatgt tattgtttat gagagacaga gccaaataat 60
tgattcccag ttttctatag atgttgaaca tagtattaac taaaaccaa ctcgttgctt 120
acattttcta acgtgtacat tatcttatat agtattcgtg tgatgatcct tatacttgga 180
ttatcttggg tgatcctcta tgtaatgaac atagtacact atatactgat gcaagacgcg 240
agcttgctta cgtgcgaacc gtgtggatct atgggatatg gcctccgtac ctcatttctc 300
ggatggctcc ccacactacg cccacaatcc aacatgcgcc tcattgcctc agctaccgct 360
atcccatctt atcccgacac ctcccctcac ttcccttctc ctcttctata cctcacgctg 420
ttttatact ttcacg 437

<210> 3701

<211> 370

<212> DNA

<213> Glycine max

<400> 3701

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cactaaaatt aagttcacia aataacaatc tgggagggtta cagacgcaca ttcactaagc 120
ttcaattgat gactaaatgc ggtgaaaata caactttccg agtcttacct ttcattgata 180
tgaacattta tttactcagt ggtactattg agtctttctt ttacacataa tttaccaga 240
caaaataggg agagtatcca ataccatag ctatattatg accaatgcaa ataaacgtcg 300
acgagtaa at catggttacc atttacaagt acgacagtag ctccgtcaaa aataatgtga 360
gagtacatat 370

<210> 3702

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3702

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tgtagtttgc ttgtagatt ttttctttat aggaatttat ggtcctgtaa gttcattgag 120

agggcccagg cactaataca tggagatcta cacactgggt ctgtgatggt tactcgtgaa 180
 tcaactcaag ttattgatcc agaatttgca ttttatggac caatggggtt tgatattgga 240
 gcattcttgg gaaacttgat tttggcttcc tttgctcaag atgggcatgc tgatcaagca 300
 aatgatcgaa aagtaggtcc cctttttcca tgtcttctgt ggtccttact tgtcctcttc 360
 tttgcatact ataagttgta tttagtcaca tttcttgta ttctccataa tctagctacc 420
 actta 425

<210> 3703
 <211> 297
 <212> DNA
 <213> Glycine max

<400> 3703

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 tgacagaata tcccacatta ttaatgattg aaagaaacct tgttttaaag actttattta 180
 ccagaagaaa atattcaaga caaacacctt acgtggccga ccacatatat aaattgctct 240
 cttggatgat ggacgtccac gaataacatg cctggaattc aatagatgat aagcatt 297

<210> 3704
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 3704

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 ttcatgggtc aggcccatgg acttcgcaag aatccattgc tgcttggcct cttcgcagtc 120
 ttcaaactga ttttcttctt ggtaaatagt cccctcaact gcctgtaact tagtggtatt 180
 tgggccttca gaagacgcat catttaaacc acccatagta ttatcctcct tggagctatt 240
 agcttggtca gggtccagct caaggagaca agcttttagct aggcctgtgc tctgcctcac 300
 gtacacttta aggaatagtc cagaatccct ttttgtgact gggccagact gggtgaaatc 360
 atatttgtag ccctctgttt ttttattggc cccgattg 398

<210> 3705

<211> 422
 <212> DNA
 <213> Glycine max

<400> 3705

gactcgagtc atcaagagat tataaatatg tgaccatggc atgagtttca aaaaaataat 60
 catcaatcat ctttgaatca tctatctttc aatctttttt caacatcatc tctcaacatc 120
 tttcaatcaa tctttcaata tctttctaca aaattttctg attcatttct cttcatcttt 180
 ctaaaagttt tttatcaaca ctttcacttc caagaaaagt tctttgttca aaaacttgcg 240
 ctattcatct ttttcattct tttctccctt tgccaaaaga acgaaggact aaccgcttga 300
 attcttttgt gtctctcttc tcccttaca aagattcaaa ggactaaccg cctgagaatt 360
 ctttgtctta acacattgga ggggtacatcc tttgtggtac aagtagaggg tacatctact 420
 tg 422

<210> 3706
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 3706

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 taagctttct gtgtcttctt taaataaaga tatagtagta gagacccta ctagtgggtc 180
 tgtgttaact tctgatgtgt gtttgaattg ttctgtggag atttctggta ggatattctt 240
 gattgatttg atttgtttgc ctttgagcca gattgatgtt attcttggtg tggactgggt 300
 atcttccaac catgtcttgt tgaactgttt tgagaaaagt gtggtgtttg atgattctgg 360
 agtgagtaag gatatgatgt ttatctctgc caaccaaggt gtgacatctt taaaggaaga 420
 tgc 423

<210> 3707
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 3707

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 tagaactaac ccaagggttag aaagtgagaa tgtgacgtta tgagtggaaa aagagtgaga 180
 ctttgagagt tggaaggcta agtctgaatt ctgtggtaaa tggaggttag agtgagttaa 240
 tactagcttg aaatgtcatt tagaacatgt gagaaagggt aggctgagct agagagaaaa 300
 acaaatgacc aaagtgaaca aagagccatt gctagggcaa atttgggtgt tgaagagtca 360
 aattttgatt cggtgagagt ttaggtgtaa atccagtttg aacaagtcta aatggatggt 420
 atggact 427

<210> 3708
 <211> 372
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3708

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 tgcaacagta atgcaggtga tcctcttcaa tttgatcatg ttttgtttgc tanaacatca 180
 taccatctat tgccatttac tcgaatttat agtcgctaac attagctact acaattaa 240
 taacttaaca gggtattgca attctatcta gtatatataa gaaataatat ggcatgcagt 300
 ttatacatat attttcttta taaagaggaa tcataatttg tatatatttg atgcatttaa 360
 agtttttact at 372

<210> 3709
 <211> 426
 <212> DNA
 <213> Glycine max
 <400> 3709

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 accaaagagg attgtttcaa agtaattaat ttcatatctg ggtaaataact aaatactgag 120
 tgctattagt tcctgtctag tcttccacta gaataaaagt agacgaggaa actaatagta 180
 agttaaaaaa tttgctcatg tgcttttgct tagagttatg attttgtaag tttaacgcaa 240

cggaatggct aagttgctag catgtat tctgttgagc aggccctgta tttttgctat 300
tctgtcagta ctccagtagc aacaaagcaa aatgcacact tagtagtacg tcagaactta 360
agactacctt gcctcttaaa tcttataaaa atgctaaacg ctatgaatgt gtttctatga 420
aaccac 426

<210> 3710
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3710

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cccaatctat gacgccggtt cggaaaataa ccgtcttcgt attgaatggt tcgtgtactg 120
ttatttacia aaaatgccac cggtcatttg ttaaggacgg ttttagtaga accgtcctta 180
ttcacgcgtc gtaaaaagct ttttaatttag tagtgactgt aatgttattt caaagaagaa 240
tgaaagaacc tagagttttc atcacctca ccaatccatc ccaccctaga tttttgggtc 300
atttcttcan agatctcaa aattcttttag aaagagtcaa cctccctcct tctacatctt 360
caaccctctc acacaacctt atgttcacca cttatagctc ctccactttg gaatttata 419

<210> 3711
<211> 333
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3711

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aactgaactc cctggtgaaa aaaaaaatca atatgtgaag agaagagaag ggagacaaag 120
tgcaagttca aagataataa taataacaat aacaacagaa aaaaggcatg aacttcagat 180
cagcagaatc ttttactgct aactangaat aaatgaggta aaagggttaa atttgattgt 240
aaagcacctt cagcagtagc taagtttcct aatttttaaa cacagcataa aatataaaga 300
ttttgcctg taaaagtata aacactaaaa aag 333

<210> 3712
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3712

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 atccctaggc tcttgacctt gacttgatag aacctttttt taagcaaagg catttgactt 120
 gaccccatgt ttactaaag tgaaaaaaaaa ccagtgcgga atcaaaactc cgacatctac 180
 tatggtcttc catttttccc gcagtattga gtcaatggtt aggttggtga gatgttgccg 240
 tcgtggttca attatattta atatgtatgc atttatggtt attttgtttg gtcaacataa 300
 aaccaagtta gcataaataa tgaagtgttg tttctattcc cttatgatct tatttgtaa 360
 acttttggtg tgtttatgtt ggcagttgaa caggatcaag aaaattgga 409

<210> 3713
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 3713

agcttgcttg tgggtcttct atggaggctg gatctttgag cttcaatgag gtccttcaat 60
 ggtgattttc caccatggag atgcagtgga agacaaagga gaagaggatga gaggaggcgc 120
 catccactag ggaataaacc atagaagaag gagcttcacc accaagatga gccttgata 180
 agaagcttgg agaggatgct tcaatggagg aaaagaaaga gggagagaaa gagagagggg 240
 ggagcacaaa attgaaggaa gaaaaaggga gagaagttga actttgagtt gtgtctcaca 300
 agactctcat tcatcaaagt tacaacaagt gttacacatg cttctattta tagactaggt 360
 agcttccttg agaagctttc ttg 383

<210> 3714
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3714

tgctctanat ttacattgat gtttgatatt attggaggag gttgtatgcc atttttgttt 60

Figure 1 consists of 12 histograms, each representing a chromosome. The x-axis for all histograms is 'Number of genes' ranging from 0 to 100. The y-axis is 'Number of chromosomes' ranging from 0 to 10. The histograms are labeled with chromosome numbers 1 through 12. Chromosome 1 shows a high frequency of genes, with a peak around 20-30 genes. Chromosome 2 shows a similar distribution but with a slightly lower peak. Chromosomes 3 through 12 show progressively lower frequencies of genes, with chromosome 12 having the lowest frequency, peaking around 10-20 genes.

```
<223>      unsure at all n locations
<400>      3715
```

<210>	3716
<211>	420
<212>	DNA
<213>	Glycine max

```
<223>      unsure at all n locations
<400>      3716
```

1574

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cagacaatat ctgaacagta cagaattgtc accaaatgaa cgaataaaga aggaaagggg 420

<210> 3717
<211> 262
<212> DNA
<213> Glycine max

<400> 3717

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gtgataactt atgaccatta taatttctcg agagcttcg ctgttcaatt tcgagcgtct 120
cgatatatta tgcgccc aaa tcggacatct cggggaaggg ttatgaccat atcaatatca 180
cgaaagcttt ggttggcaat ttctagcatc tcaattgtga tgttctgta tcggaccttc 240
gtgtcataac ctatgaccat tt 262

<210> 3718
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3718

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cacagaattc agacttaacc ttccaactct caaagcctca ctctttttcc actcataaca 120
ccacattctc actttccaac cctagggttaa ctctacattt catctctaac agttttccat 180
gggcaatttc agcatacaaa catcacaaac atcatcacia aaccctaaaa cagaatgggt 240
atgtctaact catccaaaca tggcaatttc aacaagcttt caacaagttt cttcacaaat 300
aactatcatg aagcagaaaa ctagcaagac taccatcat atctncaaaa accccatacc 360
cacgaaattt aagagag 377

<210> 3719
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3719

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 aacgggttgt gttttgattt ttcacagaa cacanatcct attttcccac tcactccttt 180
 tctttcaaag gccaaaataa tgcactactc tcactgatca ccatcaaact atgcttcttc 240
 tctctttgac accaaccatc aaacctacat ctctcacctg cataatntggc caaccacaaa 300
 tttngggacc tctggcactc ntgtttgtat tgcttcacat cgtttgggat ctggtttgct 360
 cacgtc 366

<210> 3720
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3720

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 atgatgacaa aggtgatgaa caaaaagctc anaagatcaa agaacaactc aagtgaatca 120
 aagaacatct caagtgaatc aagaacaagt caagagttca agaatcaaga agaattcaag 180
 attcaagact caagaagaaa gtctacaatc aagaatcaag attcaagatt caagatctca 240
 agaatcaaga tcaagattca agaatgaaga aaagactcaa tcaagataag tattaataaag 300
 ttttttcaaa actttgaata gcacatgagt ttttgacaaa acctttacca aagagttttt 360
 actctctggt aatcgattac catattgtta taatcgatta ccagta 406

<210> 3721
 <211> 366
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3721

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 ataaaaatta taaaaaattt cataccacta tatatatatc catgatctca accaatcttt 180
 acataaccgc taatcaagtc ttttgattan aaaaaaaaac ctaatacatt aatcatgtca 240

agaatggtgg aaccatatat tatattatta gatcgatcat atgtttcaag aaaatgtctg 300
 agcctatcta ataatttctc ctaagaattc aatacacaaa cctggatgag cagaaagcta 360
 tgacat 366

<210> 3722
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3722

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 ttgtggaccc tatttgcttc ttgatgcaat cctacccct aaggacattg aataaaagac 120
 tccaagaaga ttggaccaga gagatgcaag agaagacctt aggattctca tgagccttag 180
 ggtagatttc gggcccatgg gttaagtata agtccactta tctttgtaca tatcatatca 240
 aggttttatt atttttgggc cttgtattta gggctctata gtgtaggtag ggtacccttg 300
 aaatgtagga tttttcagcc cttgtatttt agggcacctt gactagttaa ttgtattagg 360
 ggtagttctg taatttcaca tacattaagt gaatatttga tgtgtgt 407

<210> 3723
 <211> 196
 <212> DNA
 <213> Glycine max
 <400> 3723

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 cctccaatcc atgttcgttg tagatggagc ttggcatgct tgtgaggagg gaaaggatgg 120
 acaaactcgc acttggggaa gcattctata tggttcgttg tcgcatgcc aacgacgaatg 180
 tgattctcta cctaaa 196

<210> 3724
 <211> 391
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3724

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 gcatntctta ttctgctcag tatectagaa gtaattaac ctgttgcaat atgttaggag 120
 ccatttcagc tgtttttggt tatacccttc aaattcttat ctgtattcag agctatgaat 180
 ctgtaaattc tgttgcatgg tactcttttg gagcttttta ataacttatg tatacactgc 240
 aggaaggtga tgtaattgct tategattga ttgagttaac agcatcttgg actccggaac 300
 tttctcctt tatggtacat atcaagtctg cttttggatt acataattng aaaaaaatt 360
 gcatcagaag tttaatacgt attacatcta t 391

<210> 3725
 <211> 336
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3725

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 ccttttctat ggaagacttt caaatctccc attaatcaca ttttggtata tagcacgggt 180
 caatggggac aggacatgta ttccttttgc cctcttctct catcaccac aagatatttt 240
 aaattatgat tgtaaaacaa atagaatagt cgccattcaa taatagctc taacgttttt 300
 cggggtgaca cctttgtgcc attattgaat actatg 336

<210> 3726
 <211> 389
 <212> DNA
 <213> Glycine max
 <400> 3726

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 gtttggggcc tctttgtttc ccgctccaat gcttcgggtca tggatcatgtt gacatccctt 120
 atctcgtcac actcttttct gaccttagtg actgccatct ttagtctttc ttttaaccact 180
 cttgtttttc aagctctact ttcaaggctt gcaccttctc gctctctca gggacttcag 240
 cttcttcccc acttggacct ttcagctttg ggagccaagt tatctcttgc gtcttaacct 300

tcaaccactt atgatagccg ccgacgacac cgttgttgc tccactaagc tccttatctt 360
 tttgttccac tgtattccat gcctttcgg 389

<210> 3727
 <211> 411
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3727

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 gcacaacaag ttttccacat ccacaatgcg cgcataaacc caccatcccc tgttgcccac 120
 ctccaactga gctcacgtac tcccacgtag cccatctctt cttttctctc aacaccgggt 180
 ccccatcaat cctcccaagc cttcccaaca tcaaagcaaa acaacattca aacagcacaa 240
 gctatcacag ccaagcaaaa cagagcaaaa gcagaaaact ctgccaaaac accaaccaga 300
 tcacagcttt tctcacttag agaccccagt aacaattcct tcgatccaaa ttcgtaaccg 360
 ttggatcgac tccaaaattt tactggaagt ctatagtga taagcctaca t 411

<210> 3728
 <211> 425
 <212> DNA
 <213> Glycine max
 <400> 3728

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 acattttate tatatacaat tgtttgttgc ttgcttgaat cttgatttca ggtattgtat 120
 tgatcatc acaaaagggg agattgtaga tgcaattgac tttgatgttt tgatgatgat 180
 catgatgatg tgttgcaatt gatgcaaatg ggcttttcaa gattaaaatt caagacaata 240
 cttcaagatt acaaggcaca acatcaagat gatcactaga atattaggaa gggaattcct 300
 aattgaatta gcaaagggtt ggccaagtga tttaaaataa aaagtgtttt tcaaagggtt 360
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 ataac 425

<210> 3729
 <211> 406

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3729

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 tgtgaacagt tctagataag ggaatatcag cacaacaaca acaaacataa caaaaaggat 180
 aaaaaacata tgaaaagaaa gaggaggaaa gaagagaata acagttgact actacaatat 240
 ccttataggt attaaaaata tttgcaataa catgacaaag gaattgcttc tcttaacatt 300
 gtctaanaaa aactaacatg ataccatgga gtaacaaagt tcagatagag gtttcttcat 360
 ttaatacagc tcacttcana atagactttt tatttncatt tacttt 406

<210> 3730
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 3730
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 gtacaatacg gatatggctc ccgatcggaa ccagcttcag agtatgacta agcgagagca 120
 tgagtccatt aaggaatatg cccaaagatg gagagatctc gcagcccaag tcgtaccgcc 180
 catgacggag agggaaatga tcacaattat ggtagatacg ttaccacagt tctaatatga 240
 aaagctgata ggctacatgc cagctaactt tatggatctc gtcttcgccg gagaaaggat 300
 tgaatccgga ctacggaaag gcaagttcga atatgcttcc aatgtggccc ccaacaacaa 360
 cagaagagcc ctagtagtgg gtgcgaggaa aaaggaagga gacatccacg cggtcaccac 420
 cgccccgatg tggatg 436

<210> 3731
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3731

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gcgggaagca ccctaaatat tgatttgtag gtgccatttg ctaatgagga gcatgaaaac 120
 tttattgtgg atttcatggt tcaaaattta tggcttcctt gcctcttcat cgtcatcttg 180
 tctttggtga tgctcataag aaatgtggga aatttggtgc atgttaataa attctgtcat 240
 tcgattgttc gagacgcgct gtaccgcagt agtaattatg tctcccatat caatgtcttt 300
 tgagtgcatt tgatttggtta gaaaatgtat gactaggtat acttatttcg caaaaaata 360
 cttattttat tgtttgacag tttgttcagt gatatttctt aatcttgaaa atttttctc 419

<210> 3732
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3732

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 aaaacattgt cagagtcttt tcttcatttt tcttttaggg ttgagcttaa gccacaaagc 120
 ttaagccttg gatgccaat ttcttcattt ttcttttctt gagcttaagt tatagatctt 180
 aagccttggt agcacatttt cttcattttt cttctaggat taagcttaag tcttgtcaag 240
 gtattttctt aatttttctt cttgggtcaa gcttaagcct tgtaagccta ttttcttcac 300
 tattcttcaa ggagatagct taggctatag agcttaagcc ttgtcaaat cttttcttca 360
 ttattgttct aggggtcaagc ttaaacggca aagcttaagc cttggaagtg gtggttcttt 420
 atttttctt 429

<210> 3733
 <211> 374
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3733

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 tttggtcatc ctgctttgat aaaaactggg gcaaatgaag aggatgagaa tgaggagaa 120
 acccatgttg tggttgccat tcttatatgg ccaagtttcc caccaacca acaatgtcat 180
 tactcaacca ataacaacc atctccttac ccaccacca attatccata aaggccatcc 240

THE

tctaaacatt ntgattntca naattttataa tgaagagtca catctgttga tgtgtaaccg	60
actacacctt aatggtaatc gattaccagt gactgattta gaanaataaa tttccaaaag	120
tcacaattct tcaagtgact tgtttctgaa atttttttca aaagtcataa cttttttaag	180
tgactagttt taaagaaact gccaaagagtc acaaactttg acttgagtca tcaagagatt	240
ataaatatgt gaccatgaca tgaatttcatt aattatcaat aatctattct tcaatctttt	300
ttcaacatca tctctcaaca tctttcaata tattctttca tctctttcaa cactttcaac	360
agaactttct aattcatttc tcttcattct tcta	394

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agcttggcat atatatatat atatatatat atatatatat atatatatat ttatatatat 60
tataacaaag agatcttcat ctatgaaact atgttacgtg acaatctcat attttttact 120
tttcaattaa acgcgatcca ttcaactatt tatcttaatt atcttatttt tcttcattaa 180
acgcacccgc gccgaatatt tagtttaatt gctttattct tctatgttaa aataaaaaaaaa 240
tacataataa ttatt 255

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1582

<400> 3736

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ggcattttta tttacacaac attaaatcat ataaaatatt gcctcccca tggagatagt 120
gggataatta aaacattgga tgtcccaatt tatattacaa aggttggttg aaacaccatc 180
ttctgcttgg gtcgcatgg gaaaaacaaa gctataactg ttgatgcaac agaatatatc 240
tttaagcttt tcttggtgaa gaaaaaatat gatcatgtaa tgaacatgat aaagaattcg 300
cagctttgtg ggcaggctat gattgcttat ctacaacaga aagggtttcc tgaagttgcg 360
ctccattctg tgaaagatga gagaat 386

<210> 3737

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3737

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tttatccatc tcatcccttc ttctatctac attagcccta aagtgtaaag cctctcatga 120
taatgagagg ctaaaccccc attggttgga gtctggcaga ccaacttttg taatgtagct 180
ttttcttatt atttatttaa tacaatccaa tttctgttgc tcttttctgt gcttatttgt 240
ttattgatta ttgtatgatc atccatgttc atgtagtgt tagaggataa tgctttgaan 300
aatggttatt ttctaagaaa taggaaaaga catctaaatg aaatcattgc tagaaataaa 360
tngatatttg tttatcctat tttatgcata tctaacttta atgcaattta ttggtt 416

<210> 3738

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3738

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ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120
aggcaataga tctaaatatc tgggaagcca ttgaaatagg gccttatata cccaccacag 180

tagaaagagt ttcaatagat ggtagttcat caagtgaag cataaccata gaaaaaccta 240
gagatagatg gtctgaagag gatagaaaac gagtacaata caacctaaaa gccaaaaaca 300
taataacatc tgccctagga atggatgaat atttcagagt ttcaaattgc aagagtgcta 360
aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatggt aaaagat 417

<210> 3739
<211> 402
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3739

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tttagtcatc ctacttagac gaatgagaaa actggggcaa aagaagaggg tgaggatgaa 120
ggagaagccc gtgctgtgac tgccattcca atacagccaa gtttcccacc aaccaacaa 180
tgtcattact cagccaataa caaaccttct ccttaccac cgcccagtta tccacgaagg 240
ccatccctaa aatcaaccac aaagcctacc taccgcactt ccaatgacaa acaccacctt 300
tagtgtaaac caaaacacca accaagaaat gaattttgca gcgagaaagc cttagaattc 360
acccaattc cagtgtccta tgctaacttg gtcctatc ta 402

<210> 3740
<211> 413
<212> DNA
<213> Glycine max
<400> 3740

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caacagtcac atctttttat gtggttcttg aatggctatc aaaggcctat atatatatgt 120
gacttgagac acgaatttaa gaagagtttt tggagaacaa aaaggcttta tcctattaaa 180
aagcaaatacg tgttatctc ttacaaattc cttggccaaa ttacttgga ttcaataagg 240
aattatttga gtgctcaa atgttcagtct atctctttca agagagattt cttcttttct 300
tcttcttcat tctgaaaagg gattaagaga ccgagggctc cctgttgga aagaattcta 360
aacacaaagg aagggtgtgc cttgtgtgtt tagaaccttg taaaggaatt tac 413

<210> 3741
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 3741

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 acctactcac ctatgtgatg ataataataa taataaatat agcacaaatc aaggttgatt 180
 taatgatatt tttcaatatt gtaatgttaa cctaaaactg aagttaatcg atcacataaa 240
 taaatgtcgt cgtattttaga aaagaaaaac agaaaaaagg gaaggtggag tataacctgc 300
 agtgagtcca tggataagga attttggtga cattgacatg taatgccttt tggac 355

<210> 3742
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3742

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 tccggcacac agaatcatag agtttacaag taaaagtgtg atgggtatca tctctcctaa 120
 aactaaggaa tacgtcatgg gtacactntg tttcagacac tgtaccatca tttgccatga 180
 ttgtattgta gtagcactgc aagtagagta gtgggactat gagctttctt tcaactgaatg 240
 aatgactcgc atcacaaatc tctacaact tatatcagga atttaaaca atactaatat 300
 actttgttat ttttacatca tattattata tattctatct tttatttgaa tatatttatt 360
 atcatntct ctcgggtct ctccaatagc cactgtggcc ccttggat 408

<210> 3743
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3743

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acttaaccct ttgggtacat gatcagccac attatgctga gttctcacia actccactga 180
 tatcacacca tgcattgatta actcccgaac catgttgtgt ctaacaccca agtgtctaga 240
 ctttccatta taaactggac tatatgcctt agccaaagnt aatatggggt aaccttattc 300
 cttttggtag gaattcagtt taacatgtaa caggctgcca acatagcctc accccaaaat 360
 ccttcactt 369

<210> 3744
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 3744
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 catgttctac aatatataga aatggatttc aaattcttac aattagaaat tctaagactt 180
 ttaagcacag agaaacaacc taagggtgaag gaagtcagtg aataacatct attaaatatt 240
 gtcaaattct ttaatgatgt gtaattgtgt aaggattcat aaggtaggaa ctccaatttc 300
 tcacaattaa gtagagtaag agattgcaat gcattcagca gaccatctct taaggatgct 360
 agggaattag tgccagagat agttaagtct aggatgaaat tgggtgga 407

<210> 3745
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 3745
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 gagattgcct tttgttacct ttcaagctct atatccaaaa gtgggtgtaat gcccttcatt 180
 atccaactac cctatagatg ttagatttcc ctttaaggca agaatatgtc aaacattgta 240
 cagtgtccat agggatccac tagaggctct gatgtcaata tcacctcttc cgacaatgtc 300
 aagagatttt catctgcaag gtaaactttc caaaccttcc aaaatatagt tagataaaaa 360
 tc 362

<210> 3746
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3746

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 atgcttaaat aggtggcctt gttggtgctt gtgcgcctag cgcaactatg gctcgcttag 120
 cgtgcattag tgaatttcag cttagcgcgc gtcttttcac tcagtggatg gactcaagtg 180
 gtgtgcttag cgggattagc cctcgctcgg aaaacattta cagcttatcc ttcttcaga 240
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 gattggctta gcgagcggat gaaaatcagc acttcacaaa cttgcctaata taacctgaaa 360
 ttgagaggaa atgattatta aacacacaaa atgggagtag taagtattta ttacctatct 420
 ttaacanana gtaattacaa cattacaaaa taacc 455

<210> 3747
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3747

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 caaatcgctt cagagtctac cagagctttc cccgctgcta gaaattctaa atgcaagaga 180
 ctgcgaatca ttgatgactg tattgtttcc ttcaacggcg gttgaacaat taaaggaaaa 240
 taggacacag gttatgttct ggaattgctt gaacttggat gaacattctc tagtggctat 300
 tgggttgaat gcacaaatca acatgatgaa attcgcanac caccacctat ctacacacaa 360
 tcgtgagcat tgtgaaaatt acaatgattc ttttcaagtt gtttacat 408

<210> 3748
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 3748

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ttcagtgtca ctcaacaagg cataagaata acatttgatg caaatttaaa agaaatcata 180
aacaaaaaat ttgatgaagt gcatatctta tagaaaacag ttaagaaata acaataacca 240
aatgaggcat tttttggttg tgcttttttg gtgtctgttg attatgctgg agcataattc 300
taaaactttt agccataaaa gtacccttct ccacctttta tgagacaggc ttgtttcctt 360
agcttcctta tngtggtttg catattggat ttttttagtt ttcaaagggt ggccatgcaa 420
taggactata ttgt 434

<210> 3749
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3749

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tcccttcaaa ggtagaagtg atccagatgc ctacctggac tgggaaatga agactgagca 180
cgtatttgcc tgcaatgact aactgatgc gcagaaagtc aagctagcag cagctgaatt 240
ctccgactat gcccttggtt ggtggcataa ataccaaaga gaaatgttga gagaggaacg 300
gcgagaggta gatacatgga ctgagatgaa aagggtgatg agaaaaaggt atgtgcccac 360
tagctataac aaaaccatgc gacagaaact t 391

<210> 3750
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3750

ntgatggtgt tgagaaaaaa tcacatgttt gtcacatca aaaaggggga gaatgtgaat 60

gtatgtatac atgattttga tgatgtcaaa agaagaatca aacaaggctc attttgcttc 120
 aagattaata caagattggt tcaacaaaca aatccttgat tcaatatttc ttcaagatca 180
 agccttgccct caaaatgcag agatttcaag tcatccaagg cacatgtaat cgattaccaa 240
 tggtaatcga ttaccaaggc acatgaaagt gtgtaatcga ttacacatca tatgtaatcg 300
 attaccagag actctgaacg ttgggaattc aaattataac tgtgtaatcg attacacaaa 360
 cattgtaatc gattaccagt ggaaagtttt cagaaaatct gccaacagtc acatcttttc 420
 attagatttg t 431

<210> 3751
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 3751

agcttgagaa ttgtaaagga ctacttaata gcatgaaata cgtcttagaa gggaggattt 60
 tctaagacgg ttatgatgat gaaaccatct taaaataact ctcatctaa gagggttatc 120
 taatcaaaat catcgttgaa aaggactcat tctaggctct ctgtgctttt tttttttttt 180
 tttttttatg ttttagacct agtaattgtc ttagaatggg agctattcta agatgatttc 240
 gttgtcatag tcgtcttatg tagcaccctt attttttgta aaataaatta aaacattttt 300
 ttttaaaaat aaatagggtt taggaaaata atgagggttt tgtaattaaa taaataagga 360
 ggaataattt tattaattaa ataatgggtt taagggtgaat aaaat 405

<210> 3752
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 3752

tgtccaaaac taggtaaaga tgttcagggt ccagaatcta attaattaag tcgatgcaaa 60
 gattagataa cactataaca atcatgaagc tctcataata aaattacctc ttttatttat 120
 ggcagatact ttactatcaa gcaacaaga taaataaaat tagaaagata cccaagaaag 180
 atgaagaaac acttgagaat tttcgttcta gtaactaatt tgttataaga tttgcactgc 240
 tagatcctca aacaaccaat ctttcagaa aaatcattaa tgatttacca ttcttattta 300

aaaaatatta aggttaactt ttatgaacca taatcatgga tcatgttatt tgaacaaaaa 360
 ttataccat catcaagaag gagaatgata ctttaataat gatacttcaa attgtaccat 420
 caaaag 426

<210> 3753
 <211> 328
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3753

gagcccgagt agtcgaagat atgnttaagt ccatagccat canagtctga aaagagtatg 60
 atgaactaag ggacgtctat atggccaccg ttgaagcctt ggaacgagaa accaagaagg 120
 cccgaaagga ataacacgtg ccagcaaagt tttgaggggc tttatagggc agcaatagta 180
 agctcaagct ccgaaaagg gaaaggaatc atcacgggtc aaaggcatga tcttgaagga 240
 tgagctaaag gcttacctta ggtcgaaaag aaatttgtcc caacaagtaa gcgagactga 300
 agggaatatg tgggccgtca tcatgag 328

<210> 3754
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 3754

tttatctcta tatatttttt tattctttta ggaatccata taatagccat atgatatacg 60
 agttcttgtt attcaattat ttgttttcta agaaatccga ctcaatacga attttctgag 120
 acttcattca cttcaattta ctaccacaaa ttgcctcatg tacctacaac aattctttta 180
 cctgtattga aaaatagggg tatggcaaaa aaattagagc aattgtcctc cactgagtgg 240
 gcataagctt agcaagatga agtagctttt tctctcttc tcttgtccac ccaatctata 300
 cacaaaaagc atcagattga aaaatcactc attagaaaaa tatcacaaca attaataaca 360
 tagttggtac atactcctta tcaataacat cttaaaaaaa gagaggctct taaacccaaa 420
 gaaag 425

<210> 3755
 <211> 415

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3755

ntggngctgg naaactatat aacttcacca aggttctagt ttaggctctc tcttctctct 60
ctccctgtgt cattctgctt taggcttttc ttcttttaga cactatttca ttttgcaatt 120
ccaattttta cttttcgttt cagcaataaa actccattct tcaatctata attccggtct 180
ctattgatta atggaaggct aagtccecaa cgatgttttc tcttgaggat caagcacagt 240
tctctttgag gttctattat tactggtaat ttatgttcat gcttaatgat cgctcatgat 300
taattggtgt atgtgttgct taatcacata atgaatgcct tatgttagat tttgcttagt 360
aattcaattt aaggttggac taagtgggtg aaatgataaa ggataaactc tcgta 415

<210> 3756
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3756

agcttgctcc tccccttaga attgctactt ccactttgcc atcctaatta tttattgggt 60
acatgtaa atagataact gaaattcgaa tcaaactaaa ataaaacaac ttaattcgat 120
tttaaacacc tgccatctaa acgtggaata atgggttgct aagtcctca gtaacacctg 180
ccatccta atacgttttat ttggtgaata attccttctt ataaccatgc tctattattt 240
tccacgagtg tacagtgtcc caacttcagc ttgttaggaa tctgagatct accacanagg 300
agcatcaatt atacaaaata aattattcgt tttctacaat tcacccctcc ttatgct 357

<210> 3757
<211> 414
<212> DNA
<213> Glycine max

<400> 3757

tgtgcttaac gtagaatttc caattatatt ttataatatt aattgcaact ccaataaaaa 60
caatttaact atatattatt attaacgtaa tttctatttc tactactctt aaaaacaatt 120
tcactatata ttgttataaa tcatgtggat acattttgtc acaatctaaa catgtcagtc 180

gcatcaatTT ttctttttcc catataaccc cagaatttca agagttagtc aacttgaatc 240
 tcctattata gaggcatttt cattcacaca ccccaaattg ttggaaaaat aaaataaaca 300
 ataagcaaga aaaacacaca cgtgcttttc tcctaataat cacctcaagc tacgtatgag 360
 caaccagtga ggggatatcc ccaatatgct ccacaataaa gaaacatgtg acat 414

<210> 3758
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 3758

agcttatcgg tcacatgact aacaacatat tacaacaac caggtaatga aggaggttct 60
 ctgttaggga gtaaaaaagt tgacatcggc attttgaatt taatatcatc cttaatgttt 120
 ccttgattgt agacaccaat tagagtccag cctataatTT ccatggaaat gttgtgggcc 180
 cacattgctt ctacagaact tgggtgcagga catttcaact cgaataaaaat ctcagcttca 240
 ttccattcgt gctctgaaaa tattccctcc gctttgcatt ctagatcaca ccagagtatc 300
 gggTcccatg ttctaaatat gtaattacat gaagaactaa atcgcatagt gccattgatg 360
 agtacgtga acttcataat caacaccatt ttcatgacac ttttcaatct 410

<210> 3759
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3759

tgatgttggt ttgcatgtac tgtatgaaaa agaaggtagt gattagattt aatttttaat 60
 agacatatga ttgatttctg atctgctcaa gtttgagatt tctttctttc tttctttttt 120
 ttgcttgaat tatgagtaac ctacaagctt ggtccaatca tgcaactaat ttttggtctca 180
 tcaatcttta agcttgaccc ttttcagaaa cctttgcgaa tgattaacct tttggttgct 240
 acttttcatc caacctatTT gaatgtgacc tatatatgta tgcattggag gtttccaact 300
 ntttaagata gaaatgtatc tgaaatctct aaatacatga gctgcagaag aggaaaatAt 360
 gctgaanaat cttgtattgt gaatacctga cttt 394

<210> 3760
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 3760

agcttggttc aaggtactta cccggtgaag atcgaagaac gatgaagaac gaatgaagaa 60
 cgctgaagaa cggtcgaaaa ccttcgcgaa attcctcacg gaaaacgtta cggaaacgtt 120
 tcggaagcgc ctcggcttat atttttctca cggaaacaat tttccaagc aaattcgaaa 180
 gagagataag tgcctaaggg gctgaaccct tttccttctc acttcctccc ctatttatag 240
 caaaataggg gagatgcttg ctgccagct cgcccaggcg agcagggttg cttcctccag 300
 aagcaacagc cttctggagg aatcttcttg agggcccaag tgggcctggg tgctatttgc 360
 actccattt ttactaagta cccccctct gctttttt 399

<210> 3761
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 3761

attcgattca ttctatgtac ccgtagtggt ccacattgtg tctcgtgcat tattattctc 60
 gttttgttta ctttttatac ccctgttga cgcgcttaag ccattttact taagccattt 120
 ctcgcttaac ttaaaaataa aataaatttc caccgaacgt ttgaattgta ttatccatta 180
 acttcgttta aaatatattc cgaccgttcg gtcgtgccgt aaccacgttg gaaatcaaaa 240
 agaggtaaaa aataatataa taatcaagaa gacatctttt agtaaaataa agcggaaaat 300
 caatcggacg ttatctcttt gggatgtctc attcttaatc gaattgatta ataactaaag 360
 tgaaactaga ggctaacatc aattcggcta gtcaagctcg tacataaaat aggcttt 417

<210> 3762
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3762

agctntacta tgtaatgaat aaccaaggta aattccttca tctgacttgg catcaaattc 60

tcctaagttt tcctttccat tgtttaatac aaagcatttg caaccaaaaa catgtagatg 120
 tgagatgttt ggttttctac cattgaacaa ttcatatgga gttttcttta agataggctt 180
 gattaaagcc ctattcatga tataacatgc agtattaaca gcttcagccc aaaaatattt 240
 tggaagagga gtatcattca ataaggttct agcaatttct ttcacagacc tatttttctt 300
 ttcaacaact tcattttggt gaggggggtct aggtgcagaa aaaatatggt caataccatg 360
 cttttcacia aataagtcaa attctttatt ttcaattccc cccatgatca cttct 415

<210> 3763
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3763

tttaaccnc tttntaaaag atatgcttag aatacagatg aagaacaaga agcaatcaat 60
 ttaacaatgt tcttttaaac gtgcaaggaa aaattgattg caataaaata aatgagataa 120
 ggaagagag aaatgcaaac ttgatttata ctgggtcgac cactttccgt gctacatcc 180
 aatcctcaaa caacctactt gagattttcc actatctttg caaaaatcct ttttacaact 240
 tctgaacacc caaggaatca ttttcccttg tgttcaagaa actcacaatt caagagacaa 300
 ccagtctctt gattacaatt gattttatga gaagaacaaa aagatttctc tcttttagag 360
 tggataatac aatttgaagt tctgggatga actctcaat 399

<210> 3764
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 3764

agcttgagaa ttgtaaagga ctacttaata gcatgaaata cgtcttagaa gggaggattt 60
 tctaagacgg ttatgatgat gaaaccatct taaaataact ctcattctaa gaggggtatc 120
 taatcaaaat catcggtgaa aaggactcat tctaggctct ctgtgctttt tttttttttt 180
 tttttttatg ggtagacct agtaattgtc ttagaatggg agctattcta agatgatttc 240
 gttgtcatag tccgcttatg tagcaccctt attttttgta aataaattaa aacatttttt 300

ttaaaaataa atagcgctta agaaaataat gatgtttttg taattaaata aataaggagg 360
aatatattta ttaattaaat aatggtttta ag 392

<210> 3765
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3765

tgtccaaaac taggtaaaga tgttcagggt ccagaatcca attaattaag tcgatgcaaa 60
gattagataa cactataaca atcatgaagc tctcatagta aaattacctc ttttatttat 120
ggcagatact ttactatcga gctaacatga taaataaaat tagaaagata cccaagaaaag 180
atgaagaaac acttgagaat tttcgatcta gtaactaatt tgttataaga tttgcactgc 240
tagatcctga aacaaccaat ctttccagaa aaatcattaa tgatttacca ttcttatcta 300
aaanaaatta agggtaactt ttatgaacca taatcatgga tcatgttatt tgaaacaaaa 360
cttata 366

<210> 3766
<211> 367
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3766

ctataattca tgggcataaa tttatcatcc tatgtctaac aatgatttca atatgatatc 60
ctttcttttt ggtctaataa aaggtatcct cttggcagcg gataacccat aaaactgata 120
catgcacatt ttctttatat ttctaccttc ctaagacaat ctttatecta gcccctcccc 180
aaattagggg tctattttga ataaaacacc ttatgttgtc ttaaaaccct aaaaccaggg 240
tcaaaatatc agaaataagg tcagggattt tataaaaaat aataataatg ttgctcacia 300
ggtgcaggga taattttcac caaggctggc tcttggttaa gtggataaat aaaaagaaac 360
atggctn 367

<210> 3767
<211> 405
<212> DNA

<213> Glycine max

<400> 3767

tggggcattg aggaaggggtt ttggaagaaa gaaggagata ggaatgggtg ttttccaagg 60
ctacacgaaa aataagactt gaaacactca agtgtttcta ctctcaggaa aagaagcttt 120
tctcacacac caaaagacat attgtagatc gtaacgatca ggtagtagaa atctgtccta 180
tgaacctcca gaccaaattt cgagaagatc taacaattaa cgattgcaga agggcgcttt 240
taccaaggta gcttcaggta gcttccttga gaagcttttc tcgagaggct tccttgataa 300
gcttcctcgt gaggttctt tgagaagcta gagttttaac taccacacc cttataataa 360
ctaaattcac ctcttgaaa taaaacatgg ataaaacaac acaat 405

<210> 3768

<211> 344

<212> DNA

<213> Glycine max

<400> 3768

agctcgtata gttccccaat ttatgggttat tttggagtaa attttgtaaa taaatcttgt 60
tttatggtta acgatgtctt tagaaaattt ccattggatc taatgaagaa atctgtgcat 120
tttcagggtga aaaagaggct aagttttgaa ttgcaaatg tagcaattgc gctaagctca 180
gcagttgggc taagcgcagc ttcagcgcgc ttagtgcaaa ggagaatctg gcagagcatc 240
agaattaaag ttgtgcgcta agcacgagat ctgtgcgctg agcgcagcag gtgccttcaa 300
ccaggctaag ctgcagacta gcgctaagcc caatttcact tact 344

<210> 3769

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3769

gcttctgatg aatcaagatt gattcanaga agttttgatg ataacaagg tgatgacaaa 60
nagctcaaat atcaagaaca cttcatgata acaaagatga tgatctcaag aatcaaagaa 120
tgaattcaag attgaatcaa gaacacttca aggttcaaga ggaaatttga tttcaagaat 180
ccaagaatta agatcaagat tcaagacaca agattcaaga atcaagagaa gaattaatca 240

agataagtat taaaaagttt ttcaaaaac tgagtagcac atgaattttt ctcataacct 300
 ttaccaaag agtttttact ctctggtaat cgattactag attattgtaa tcgattacca 360
 gtagcaaaat ggttttcaaa aaacctttca actgaattta caacgttcca attgatttca 420
 aaatg 425

<210> 3770
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 3770

tcttaagcac ctgcggcatg caactatacc ttatcggaat tggaaaagat ttaatgtaag 60
 tcaagagcat gatagtgtgt cgataccatt aactggtcac aggttcttaa gcaggccgag 120
 ggcacataa ttgtatttgg aaagacccaa gagaaggaaa aaactaaaac ttccatatgg 180
 aagaagaggt cgatattgtt tgatcttcca tactgggatg atctagatgt cagacattgt 240
 attgatgtta tgcattgtga gaaaaatgtg tgtgatagtg tcattagcac acttggtaac 300
 attcaaagaa agacaaagga tggtttgaat actcaccagg atctagttaa gataggata 360
 cgagaccag tacattcaag gtctgatggg aacaaaatat acttgccttc 410

<210> 3771
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3771

tcttacatag tccgcctttg cttgaccttc tttatgctta anaacagaaa cattatgcat 60
 aggcaaaaga tcaagaggag ttagtgggtt aaaaccataa acaacttcaa aaggagaaca 120
 attagtggca ttatgaacaa ctctattgta agcaaattca acatggggta aacaagcttc 180
 ccaagttttt aagttcttcc tcaaaactgt tctaagcaaa gttcccaaag ttctattaac 240
 aacttttgtt tgcccatcgg tttgtggctg acaagtgggt gaaaataaca atttagtgcc 300
 caacttgctc cacaaggtcc tccaaaaatg gcttaagaac ttagagtccc tatcactaac 360
 aatgctcctt ggcaaaccat ggagtctcac aatctcctgt tggatcaagt 410

<210> 3772
 <211> 425
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3772

agcttgatgt gagaaagcgt ggaagagtta gtcttcctac tttngtttgt tgaccacaaa 60
 gcggtacctg gagatatgtc gcggggggtcg tcaggtgggg tgctattgcc caaaaccaag 120
 cttgaccaat cccgacccaa cccgggcata gtcagtcagt gagaacctgt gacgtacct 180
 aacaggcgag ctcttggcag tcaaccaata aaagaacaaa gaccacaaag caaggaggct 240
 tgtgtggcgg ctggccagct atggatcttg agtggatatct agaaattggc ctctggtaat 300
 cgattaccaa ggggtgtgtaa tcgattacaa gacttaaaaa tggagacagg aagttaagat 360
 ggcctctggt aatcgattac caaggggtgt aatcaattac aaggcttaga aatggngaca 420
 ggatg 425

<210> 3773
 <211> 427
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3773

tcagacctaa gcaacacana atctaggtat ccaaaatccc tcaatttaat ggattttcaa 60
 ggtttgagaa gtgaaattga gaatgaagta aatttggagc aaactctcac ctacacaaag 120
 tctataacat caatttaaac ttgctcaaac tggatttaca cctaaaattc caccgaatca 180
 aaatttgact catcaacacc caattttacc ctagaaatgg ctctttgttc actttggta 240
 tttgtttttc tctcttgac agcccaagct ttctcataag tcctaaatga catttcaaac 300
 taggattaac tcactttaac ctcaaatac cactaaatcc agatttgacc ttccaactct 360
 caaaaactca ctctttttcc actcataaca ccatattctc actttctaac cctatgttaa 420
 ctctacc 427

<210> 3774
 <211> 400
 <212> DNA

<213> Glycine max

<400> 3774

acaaacccat gacgtaccaa tttgaacatt tcttgctcca taacattctt gatgaacggc 60
tatttgacat ctataaaata tataatgcat tcttatatta attgcaacga aattcaaaat 120
gaagagtaag aaaacaacaa ccaacaaaaa cttgccggat agttcaatct tgcagaagaa 180
aaaaaaaagg ttttataagc aaatggtttc attgtcagcg gtgatctgac tgataagtga 240
ggatggtaag gctgaaaaac tgtttcggca aagcagaatg gagactgctg agcatggaat 300
tgaacaacat aagaaagggg gcatataatt gtcaaaggt gtagacaaaa tgctggagtt 360
tcttcttgct tatatcattt caagatgaca ttaattagat 400

<210> 3775

<211> 388

<212> DNA

<213> Glycine max

<400> 3775

ttctctacca cttgtcatcc acaaactgat gggcttacag aggtagtgtg taggtcttta 60
tccactcttt taagggctct tctaaaaggc aaccataagt cttgggatga gtatcttcct 120
catgtagaat ttgcctacaa taggggcggt catagaacca ccaagcaatc cccttttgag 180
gttgtctatg ggttcaatcc cttaacaccc ttagacctca ttccctccc acttgacact 240
tcttttatac ataaagaagg ggaatctagg tcagagtttg taaagaagtt gcatgagagg 300
gttaagaccc aatagagaa ccaaacaag gtgtattcaa ctaagggcaa tagaggaaga 360
aaggagctag ttcttaatga gggggact 388

<210> 3776

<211> 310

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3776

gtcacctgcg gctgcagctt ccgttattag tgcacagctc ttcaaaattg gcatatcttg 60
gaatttgctt tattgcatcc aacagaggta tgtttacctc tacttttcta aacgtttcca 120
agatctcttt ctctacctct tccattnttt tgntggaaac tgctcttgga gggaatggaa 180

gagggggaat gtgctgcttc tgcaaatacag aattacctgt ggaagaagat tcacctgcac 240
 agaaattgtt aggtaaatth ttgtcatcac cttntctgg aatagagtga agtttggcag 300
 gttcatttgc 310

<210> 3777
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3777

ntgagcaaat tgaattgact attactttat acacggatgt ctggttgagt ccagtaatat 60
 atcgagacgg tccaaattga aaatggaagc tcgtaggaaa ttcaaacgac aataactttt 120
 tactcggatg tccgattgaa tcgggtaata tatcgacacg ctcaaaattg agactagaag 180
 ctctgagcaa actgaaacga caataacttt atacatagat ttccgggtga gtcccgtaat 240
 atatcgagat gtcctcaaatt gaaaatggaa gctcttagaa aattctaacg acaataacat 300
 ttctactcga tatccgacag agtctcgtaa tatatcaaga cactcgaaat tcagaacaga 360
 agctctgaga atttcaaacg 380

<210> 3778
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3778

agcttggtga ggggtctctgt tagggcttct atttgctggg acaacagctt gttctgagct 60
 aaggttgcac cttgagtggg gagttctaga aggcttctct ttggttggtgc atatgtgcga 120
 tcaggaagaa tggcgtgatc actagccgcc atgttttcta tgagttccat tgccctcctcc 180
 ggtgtcttta gcttaatctt cctctctgag gatgcaccca atatttgctt tgattgtggg 240
 cgcaggccat ctatgaagat gtttagttgc accgattcac tgtaccatg tgtaggcac 300
 tttctaagta gtccatggaa acggctgagt gcctcgtga gggattcatt anngaaatga 360
 tggaataaag agatttccat cttcccttta gcgggccttt gatt 404

<210> 3779
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3779

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 agcaaggtta caagagaact tcacgtgcag ctcaattcat caggatgttc gcagattcat 120
 cgaacaatgc ctcgattgtc aacataccaa ttatatcact aggaaaccag ttggactact 180
 tgcacccttc cctctaccaa ctcgaccatg ggaagacttt tcaactcgatt tcattgttgg 240
 ttaccatct tactgngggg atacaaccat attgggtggtt gttgatagat tnttgaaggg 300
 cattcatttg ggtcttcttc ttccacacta tactgcgtac caagtcgcaa acctcttctt 360
 ggatattggt tctaaactgc acgacatgcc taagagccta gttntcgata g 411

<210> 3780
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 3780

agcttcaaga aaaatggcct caacaaattc cttatttcca gaaggaaatt ctatcaatag 60
 acctccaate tttaatggag agggttacca ctactggaaa acccgatgc aaatttttat 120
 tgaggcaata gacttaagta tttgggaagc catagaaata gggccttata taccaccac 180
 agtggaaaga attacaatag atggtagcac atcaagtga agcataacaa tagaaaaacc 240
 tagagataga tggtcagaag aggatagaag acgagtacaa tacaatttaa aagccaaaaa 300
 cataataaca tcagccctag gtatggatga atatttcagg gtttcaaatt gtaagagtgc 360
 taaggaaatg tgggacactc tacattaaca catg 394

<210> 3781
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3781

tctagccaaa tggacttacc ttgaattaat tcctttgata gcccttttga gccttgtttc 60

cctttccttg ttttgaagct cactacaagc cttaagtga aaaccatgat attaccatat 120
 ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gtttttgttt 180
 cattggacaa cttgttttgt tgactatgct tcatgatgta ttttgggtca tacttgatgt 240
 acattgtata ttgggttaa atgtggacatg ctgaatgaaa tgttgtttct caaaggtaaa 300
 aaaaaaata aaaaaatcaa aataaaaaaa aaatcaaaaa aaaaaagaga gaanagcaat 360
 aaagttgagt gaatatgac ttaaattggca caagaatgat gaaac 405

<210> 3782
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 3782

agcttctgca gctcttgat tgctacatgt gacagtatat caggtcgaat gctcaatgct 60
 tgcccaagtt ttatgtatgc tggacccaaa gatgtcacia tttcacgtaa ctcaatagcc 120
 ctagcaactt cattctggtt atggaaagag gacaaaagaa taaccaaaat gtaattctcaa 180
 aatttgcatt tttgaacaaa gactatgaaa tataaagaaa ctgttactat tttcagagaa 240
 gcttagatat ttatctatag tccatacata acaaaagctc aagccataag ctcttcagta 300
 cagaactaga acaactctgt atacagccct atttagtcat tatttagata tataacacaa 360
 atttacaata atacttacat aattcattaa tagtattgta atatagtcga tttatatatt 420

<210> 3783
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3783

tgccaaagtg aaggctcaag tttctgaagt caagggtggt atgatggaaa acattgaaaa 60
 ggtaagacct atacaaaatg acattgtata gaggtcttta acagagtcga tgccatcatc 120
 catcaaatat atagtactaa tttggattga aaatttacat tttctcgtag gttcttgatc 180
 gtggagaaaa gattgagctg ctctgtgata agactgacaa ccttcgggtca cagggttcat 240
 tttcttcttt attcttttag atatattttt aatctaattt acacgacttt gtgttcattt 300

tttttttatt tttttgttaa atattttctta cattatttaa atttttggtg ttagtatatg 360
 ctgacatcat tagntacttg gttttaattt ctatctcaac ttgttatgcg atgact 416

<210> 3784
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3784

agcttgtagc cattataaga gaatgagcat gtgattagaa gtatgactga taatgttagt 60
 cagtttgc aattgattgt gaaggaatgc attaatcata tcctggtgag agtgtgatcc 120
 ttaaattttg agagaaacga ctataattta gtactaattt ttgctgaat ctctaaagta 180
 tggactaaat gtatgaaact gaggatgatg aaggccatgt ttaattgtga aagccacttg 240
 gccaaaaagt tgaccatgtg cttgaatgaa ttattccttg taccagttt gagctgaatg 300
 aattattgat tgattgaacc ctgagcctat acaatgttat ctccctacctt gacttangtn 360
 gcaggagagc atcatccaca ggaagcatgg ttcanagcaa atttgt 406

<210> 3785
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3785

tttanatatg tatacactnt tagggatcac aaacttatta atactgacca gagatgaaag 60
 taaccctcaa tagcagtcaa ttcacacaac ataaccacaca ggacagaaga ttaagacatg 120
 gtgtgaagga acttaccgta ggtttgagca attctataat ttcttgagct tgccaaagcc 180
 ttatgtcaac aatattagca agtaaatcaa cctcaatcaa aatgtgggat tgctcattgn 240
 gatgtgcct ggtcttctc ttaatttttt ctctctttac gattgaaagg ataataatct 300
 tagacattac acaagaataa tatatagatc aataaaaaata agcatcatat ttatttcaca 360
 cttntaata ttagacctag aaaggtcata tcaggccttc attacctt 408

<210> 3786
 <211> 351
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3786

agcttaatct tctttatgaa tcttcttaat gaagcttctc aaggaggtga gcttagttat 60
gagaggggtg tgtgtatcta agctctagct tctcaaggaa gttttctcaa agaagcttct 120
caaggaagtt ttctcaagaa agcttctcaa ggaagctacc tagtctataa atagaagcat 180
gtgtaacact tgttgtaact ttgatgaatg aaagtcttgt gagacacaac tcaaagntca 240
acttctctcc ctttttcttc cttcaatttc gngctccnc ctctctttct ctcccttttt 300
cttttctcc attgaagcat cctctccaag cttcttatcc caagctcatc t 351

<210> 3787

<211> 439

<212> DNA

<213> Glycine max

<400> 3787

tgacactatg aaactcagct ttataggtga aatcaagtgc agccatttcc ctagagtcc 60
tctcacgagg tggaggttgt gccatgttct cagaatgtgc aaaatcagaa tgctcaaaat 120
tataatgctc aagatcagga tgttcaaaat caccaataac agaatgcaca gattcaccag 180
ttatggaatg ctcagaatga tcaaaaggta taaatgatg cctaactaat ctatgaaatg 240
tcctatctat ctcaggatca aaggtttgta agtcagatgg attgcctcta gtcatacact 300
acattcagca tgcacacaac tagttgcctt gtcagtataa taaagggtga gggttgaaat 360
acagctaccc tcaaagata tccaaatgag ttgaaatttt gtgagcaacc ttataaaatg 420
atgagaagat agcacaaaa 439

<210> 3788

<211> 313

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3788

agctttataa gtgcgggtct gggagactat tgtcaagtgt tcgcgatatg tgaagatgat 60
gttccaagta cttcggattt ggtccgacca tgccctcctg atttcagct gggaaattgg 120

cgagtggagg aacgccccgg catttacgea acaagcataa tgtaaaccctt gacggtttta 180
aaagctctat agttgggcct aggctttaga gttttcgttt tgtaaagct ntgtgtcttt 240
tgtttttgaa tttataatac aaggatcttt ctttatctgt tcctgggctc tacccattct 300
cattcatttg cat 313

<210> 3789
<211> 411
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3789

tgcttctaca atctccccctt tntgatgatg acaaccctta aatcaagaaa tacatacaca 60
ttctttttcc tagtcgatca ctcaactaat cctacatatt ctcccccttt gtttttgagt 120
ttaagcttta cttggaatta agttatttaa ttatgtgagt tcttgattta atccctattt 180
tctctcccc tttggcatca acaaaaagcc aaagtgcata acaaatataa aacatacata 240
aatgactaat catacacaag acattcattg aaaaaatcta aaccaatcat gaagcaaaaa 300
catgaataac ccanattcaa atataaacca catagtctta taacatagat catagatggt 360
cagtcatact aagcaaatag taaaagaaat actaaatggt caaatgtcgt a 411

<210> 3790
<211> 394
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3790

agcttggtccc agcgtttatg cgagacatat accaacaatgt tagctatcat cgccaagtac 60
gaagaagagt tgggtctagc cacggccccc gagcatagaa tcgcgacga gtatgccc 120
gtatatgcgg aaaaagaggc tagaggaagg gtgatcgact ctttacacca agaggcaacc 180
acgtggatgg atcggtttgc tcttaccttg aacggggagtc aagaacttcc ccgattgtta 240
gccaaggcca aggcgatggc agacacctac tccaccncg aagagattca tgggcttctc 300
ggctattgtc agcatatgat agacttaatg gcccgcataa ttagaaatcg ttaggaaact 360
tgtatggtct cttagacctt gactagatat gact 394

<210> 3791
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 3791

taaggcttgt ttccttggtc aaatcaaadc aattttttga agttgtttt gttatcaagt 60
 ccatgcaaaa acatttgaat tcatttggtg tttgggaaag ccattcattg ttttcattct 120
 caatgttttc aaaaatcctt ttgttggtt ttgatccaat caaaagtaag ttttagaaac 180
 atcgggttatt gattctttcc aaagcatgct atgcccaata aaaaatttct gtttaagtcc 240
 caaaaggagt tatatataat ctacaactac actaatagaa caaaatatat caaagcatgc 300
 ataaactagt caaaaacata aactcgcgta agtttccaaa caaaaatcca aaatagtaaa 360
 taagataata agtactaaa atttaataca aagcgataaa tgaacata 408

<210> 3792
 <211> 354
 <212> DNA
 <213> Glycine max

<400> 3792

agctttctaaa aggatgtcaa ttgatgttc tatgcctctt gtaggtggca gcccatgagg 60
 aatctcctta ggaaagatat ctttaaactc ctgcaataag ggttcaacac taggagaagt 120
 agaaatagtt aactcattaa aattatcagc aaaaactcta ttgtatttgc aatacagtag 180
 atagagtggc tcacgagcaa gtaacacttt cctcacttca cccgcctttg ctacacaaat 240
 aaattttctc tcatgtgtat cactctttcc ctacagtgtg tcaactcttct ttgtcctatt 300
 cttctttggg ggttcaatct ttttttctc tatgtctctc ttttctctca ttct 354

<210> 3793
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 3793

ctctagcagc cagaatgtag agaggatadc tcttcctcgt gcactagttg tcaactcata 60
 tgctagacag tggatccctc ctgagattgg acaagggtgat gtcagatgtg atgcttcagt 120

cccttaactg cggagggtca caacttatgg aggggcgctt catgattata catgaaatgc 180
 tctgcgcgga ctcaaataca atactggaga ttcatctgtg ctgaatgtag aattgctgac 240
 tattctaatz aatcttgctt atgaaatgct atttcctttt aggaatggat catggaatag 300
 cgggaaaaga actatcacag tacttctatt gcaggggcta ataatgggag ctctatcat 359

<210> 3794
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3794

agctngaggg aggnaggttc agctattctt attcttcttc cttgcagggtt ctttgtgttc 60
 ttgatccctt gagtcaccaa gtttaggtaa atgagattca ttcttcatcc taaacttgat 120
 ttgtcttcat tctcttgctc tagtttctcc aataacttgt aactgccatt ttgtattacc 180
 catgaaggaa aactttgaaa aacctaaata ttcttcattc ttccttctaa atttcgtgga 240
 gtctacaaga ggtaagggga gtctctccaa ctcttgaacc atgtgcttgt tgttgaactt 300
 acttgaacat gttgttactt tgaaattttc aagcttgctg ctattcctgt atatgtgtac 360
 tgagatatnt tccttgagct ttgatgccaa aaatgattt 399

<210> 3795
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3795

tgaggaatca tanggaacct ctagagacac tgctatcatg gccagactac acatgtgagc 60
 ccacttagag gtaagggatg agtttatcgc aattgggatt agaatgaaca tgtgtagggga 120
 tccttagagg attaaatttg ggtttatattt gggatgttta ttgaattata atttttctct 180
 tacgattata attatgagat tattatgttt gatgggtcaa ttgattccct gatacgaatt 240
 ggttgataaa attgagtgtt cttggtgttt tcgttctttt aacctatgat tttgattact 300
 ttgattttga tatgattatg tgaaattttt tgaggggttt tactcctcat gttgtgagaa 360
 gtatttttgt tggacaaatg gcctcagtta tcttaagaat aaggagttga attaagatac 420

aaaaactat

429

<210> 3796
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3796

nagctctaaa gcacagcaac acagaatcta tgtgtccaac acccctccat tcaattgggt 60
tttctatggt tgaaaagtga aattttaaatt gaggtaaatt tgaagcaaac tctcacctca 120
caccagtcca taacatccat ttagacttgt tcaaactgga ttacaccta aaatctcacc 180
gaatcaaaat ttgactcttc aacacccaaa ttgccctag aaatggctct ttgttcactt 240
tggtcattta tttttctctc taacacagtc caagctttct cataagtctt aaatgacatt 300
tcaagctagt attaactcac tttaacctcc atttaccaca gaattcagac ttagccttcc 360
aaccctcaga gtctcactct gtttccactc ataacatcac attctcactt tctaaccct 419

<210> 3797
<211> 427
<212> DNA
<213> Glycine max

<400> 3797

tgaaccatta tctcctttgg gttcgcaggt tcttccatgc acggaatcca gtgatcatct 60
ctattacaat gcacccaaga gaccatatat ctaacgctgg ttcaatctga ccaacgaccg 120
attctgggtga catgtaaaaa ggtgtccctc taaacttgac cttcccatac tcagcatttg 180
catcttctct agtcttggac aacccaaaat cagcaatctt cagttgatac cttgcatgat 240
catcagatga aggaaagaga aggatgttgt ccggtttgag atcacaatgg acgactcctt 300
ttcgatgaat gcaagaaagc cttttgagaa gcatacgagt gtagactctt acttcactat 360
ccgatattgg ccccttcttg ttactaaacc aagaagagaa ccataaggag cacactccat 420
gaaaaga 427

<210> 3798
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 3798

agctnntatt ttatttatat attatatttt ttataattnt atgtantttt atcacactat 60
 tcaaaaccta ttttataaaa taaatataca atatgaattt tatctttaag ttatattttt 120
 tacctaaatt ataatttcat aaaatgtag tattttatta tttataaata tttatatatg 180
 tcaatgaata tcttatacct atattaagat atttttatta tttattataa taggttttta 240
 tatttaaatt tatttaataca ctacttttta aaagaattaa attttataat aaagatatat 300
 acataattaa ataaaatgac catattttct atttcttaaa atatttatgt atggaattta 360
 ttgatattat tatctttatt tataatataa taaataacat gagtacctta acatatataa 420
 aaaaat 426

<210> 3799
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3799

tagacgactn tgtttgaacc gagatgactt tattattaat tggacaagtt tttatataat 60
 gtagaagaaa gtgaatctga gccttttacc cctttgaaag acttgtattt aaaaatgttt 120
 taaaaatact ttttaattaat atttaatttt ttattccttt attagtatat atgtgaaggg 180
 tagaggggtg cacaagagac tatataaaca atcttttaaa aataattcaa cgggaaacta 240
 gaaagaaaag tgagccaaga agcctcattt tgtttaagtg agctagagac caaccggcgc 300
 aagctaaaaa cctctataat aggaaatacc aacagagtct gctttcaaca gaaaaagaca 360
 aaatctggaa catgataaaa aatagaaaaa tcagcagaca ttagag 406

<210> 3800
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 3800

agcttttggg atctttgttt tccttggttc actccatata caactaaca acttcagacc 60
 aagtccgtac catgtgtttc ttatgttaca atcttactca aagtgcata cttttgttat 120

gatctttcag agtctaagtt gttcacctcc cgtcatgttg aattcattga agatgttctt 180
 tcgttttcct ccacttcaag tcaacaacac atgatccata accctcaa at caaaaattca 240
 caaccgaatc ttccaaatcc aacctccacc aattccaaca aacaattcag attccagctt 300
 atattttaat atcaacattg taccaccca agcacctcaa tatcaaccac ctttaaattc 360
 aaattccacc ttctcacaat tccagcttat cttttaatat ca 402

<210> 3801
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3801

atgctgcgctg tactgatggg taccatgagg tggttgctgg gggttgcttc cagcgaggatg 60
 ttgaagagac ggcatgggta tctacttcc tctttntgc cctgttgcc cagattcttt 120
 tggcattcgc atttgcgag gaaacgtaat caaactttcc tcttttcaat cctacctga 180
 ttctttcccc ggcaacact agatccgcaa agctggacgg catgtaacct actagcttct 240
 catagtagaa cactggcaga gtgtctacca tcatggtaat catctctctc tcaaccatgg 300
 gaagagctac ttgtgccc aaatacctcc atcgtgcgc atattcttta aaggtttcac 360
 cctctttctt gaacatattc t 381

<210> 3802
 <211> 360
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3802

agctttgcag cagatgccac tctactctta attcttgaaa gatatgttaa caaggaagca 60
 taaatatatt catcaggaaa acatcatagt ggaaggaaat tgcagtgggtg tgatccaaaa 120
 gatccttcca cctaagcata aagatcctgg gagtgttaact attccttggt caactagaga 180
 agtcaatgtg ggaaaagctc ttattgacct aggagctagt atcaatttga tgccactctc 240
 catgtgcaga agattgggag agttggagat aatgcccact cgaatgacat tacaattagc 300
 tgaccgctcc attaccangc catatggagt aattgaagat gtgttggtca tagtgaaaca 360

<210> 3803
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 3803

tggtccagtg atttgatgga tgcacccctcc ctttggttcc tttaagttga attacgatgg 60
 atcagttcac gatgctttga agaagggtgc ggttgaggga gtctttatga ctgttggtggg 120
 agagttttat ttgcctttgt tgcaaaagtc gagttctgct ctgtcacctc tgctgagatg 180
 cgggttatct atcttggtcat tagcattgct tggaataaaa ggatacatta attttattgt 240
 agagtctgat tccttgaatg ttgtgaatct aatttctaag ggttggtgatt ttcacatcc 300
 ttgtgctact tgcattatta aaagcatagg tgagcttaca gctgatggag actccctgag 360
 ttggaggcat gcattgaggg aggcaaataa gttggtaaata tctgtctaata ctct 414

<210> 3804
 <211> 336
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3804

agcttgactn tgagagttga ttttagcctt actttcactt tagttattag tcaattcaat 60
 taagaaagag aaatccaaaa gtgaaacatc cgattgattt tttcgcttta ttttactaaa 120
 agatattttt taattatatt attattttat ctcttttttag tttccaacgt gggttacggta 180
 cgacggaacg gtcggatttc atttttagcat aaattaatgg atattacaaa tcaaacgac 240
 ggtggaaatt tattttattt ttgattagg agagaaaatg acttaagtaa atgactgaag 300
 cacgtcaaaa ggggtacgaa aagtaaatga nacgag 336

<210> 3805
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3805

ntgagggtgc gcagcccacc atcttttcat agtagagtat cgataatgtg tctaccatca 60

cgattatcgt ctccctttcc attattgggg gtaccacctg tgccgccaga tccctccacc 120
 ttttgggcgt gttctttgaa tgaaccgccc ccctttttgc acatgttctg tagttgcac 180
 ctatccggaa ccatatcaaa attgtactga tacggcctaa caaaggcaac cattaggtcc 240
 ttccaagaat ggactcggga aggttccaag ttagtgtacc aggtaacagc taccacagta 300
 agactttctt ggaaggaatg tatcagcaat tctcatctt ttgcgtattc ccccatcttc 360
 tgacagtaca tcttttagat 379

<210> 3806
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3806

agcttgggag catccatc tgagttcttg gttcatccaa gcattttcat gcaagcttca 60
 tcaaggtaga ggggtctttc cacttcttga accctaacct tgttgtcttt ggaagctagc 120
 cttcattgcc tgttgttttg atgttcaaatt attcgtagct attgtcttgg ctggaactgg 180
 aggatacatt actttttatt tttatttttt tgaaacttta aggttaaaaa tgatttcttt 240
 gggcgtcaaa acttaggggt agccttaaatt ttcacttana tcggagttaa aggatatttt 300
 gtaggattga atctgtcacg aaattaaaaat ggtgggtatg actatatgga atttttcctt 360
 aaagatctga ctanaaaatg aagttgctat gtgtgaaata tagggtagca tgt 413

<210> 3807
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3807

tgtcgggttc agtttcaatt acgcgcttgn ggcacccat ggactgagag aaaaggctca 60
 ggtcatcaaa tattgcacat cttttaaaagc acaaagcgag gatcggaact tacgttcttt 120
 ttaaaaggct gcgatgagaa aattacagag gacatgaatc cctaggggaa accaagaaga 180
 acacacaaaa gtagcgactt cctcaattac cccagatctt aagcatagta tcgcttgaca 240
 acgttgagat tcacgggtga aggtagctcc tcgtcatcca tggtggcgag cactagggcc 300

cctctggaga aagccctttt tacaacgaaa gacccttcgt agttcggggc ccactctcct 360
 ctgttgctctt tcagagcttg gcagactntc ttcagcacta agt 403

<210> 3808
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3808

agcttctaaa ctntgtacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60
 gatatcttaa gaaggggggg ttgaattaag atattccaaa ctgtttcccc taattaaaaa 120
 tctatttttc tttttactta agttatgaat tcccttaatg acaatcttct taaatattaa 180
 ttcaaagtaa gcaacttgaa tatgaatata aagcaataat aaataaagga gattaaggga 240
 agagaaaatg caaactcagt tttatactgg ttcgggcaca cccttggtgcc tacgtccagt 300
 cccaagcaa cccgcttgag agttacacta acttgtaaat tccttttaca agttctaaac 360
 acacaaggac aacccttcct ttgtgttttag agat 394

<210> 3809
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3809

tgtagaatgg ctagacatga tacatgtcag ggtttggttt ggctcatgga taaaagggat 60
 gccccacatt atttccatga cacaaatgca aaaatgatga tttggaaatt ttatgcaaaa 120
 ctgggtcatgc atgcacctat gtggacactc aagtgtcaaa tttttatggt catgtgatgc 180
 tagggctcag gattcatttc ctctatttta aatcaaccca atgtttccaa aatatgttct 240
 tttatcaatt tgtgcattca tccgagtcca tttcgggcgt ccgngaaaaa cttcacagca 300
 ttcacccttc aggtgtatac acattttttt caaaaactag ttatgatcaa ctgaattttt 360
 tcaaagaaaa gttggaaatc atctcttttc aaagcatgtc ggttttta 408

<210> 3810
 <211> 380

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3810

agcttgtggc aaactttgaa ggtcacggtg gagtcaaggg cgcataaaaa tgagtaaatt 60
 aaaggcacia ataateatt cagagtgaat actgaaatt aataaaataa ttaaaatct 120
 tatgacttcg atcaaagacg gttttataaa aaccatcgtt aacggctaaa aatagttggc 180
 attaatctca aaaatgccac caaatgtttt actacatcga tttttcaata accgacgtag 240
 atacaacgac gcagaaagac gctnttctag tagtgaaaga aagaaaacia tctatacat 300
 aaaaaagaaa gaaagtaaac tttgaacgtt ttatgggttt aaccacaacc acaacanttc 360
 taatggactt gtttcattat 380

<210> 3811
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 3811
 tagctacaca cacccttcta ataactaagc tcaccttctt gagaagcttc cttgagaaac 60
 ttcttcagaa gcttccttga gaagattcct agagaaacta aagcttagct acacacaccc 120
 ctctaatagc taagttcacc tcttgagat gagaagctag agcttaacta cacacaaccc 180
 ctataatagc taaactcatc cccatgccaa aatacatgaa aatacaaaaa aatccctact 240
 acaaagacta ctcaaatgc cttgaaatac aaggctaaaa cctagacta ctagaatggc 300
 caaaatacaa ggcccaaaag aaggaaaaac ctaatttaat atttacaag aagagtcgac 360
 ccaaccttgg cccatgggct cagatatcta gcctgaggtt catgagaacc c 411

<210> 3812
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3812
 agcttatcca taacttgact aaagaatggt gcaactgact gtagtaatac aagatcagaa 60
 naagattaaa aaaaaaagcc aaattgtccc aaacaatgct ctctcaagta ggatcaatat 120

ctgaaaaatg aaatgttaaa tttagaaatc taagtaaata ttgattccta attttttaaa 180
 tgttggaag acttggaaga caaaaattgc attaaaatag aaaatgcaaa acatatagt 240
 ggactgagac acattagcag cgtttcctca actcaaaaat tataagaatc agaagtaaag 300
 agtatgttaa gagtgtggta acatactcta acaagctttg atcaaatgac taaaattaat 360
 tgggcaaaaa gatatt 376

<210> 3813
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3813

tgggtgatgt tgcgcgtact gatgggtacc atgaggtgcc tgcgngggtt tgacccatgc 60
 gggcgttgaa gagacagcat gggatatctcc ttccttcctt tttgcccccg ttgtcccgat 120
 tcttttggca ttcgcactcg tgaaggaaac gtaatcgaac tttctctttt tcaatcctac 180
 cttgattctt tccccggcga acactatgtc cggaagctg gacgacatgt aacctactag 240
 cttctcatag tagaactctg gcaacgtgtc taccatcata gtgatcatct ctctctcgac 300
 catcgaggga gccacttggtg ctgccaggtc tctccaccgc tgtgcgtatt ctataaaggt 360
 ttcgccctct ttcttgacat attctgcagc tgagtgcgat cgga 405

<210> 3814
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 3814

agcttttcga ttcattctat gtaccgtag tggccacat tgtgtttcgt gcatttttat 60
 tctcgttttg tttacttttt ataccctctg ttgacgtgct taagccattt tacttaagtc 120
 atttctcgct taacttaaaa ataaaataaa tttccaccga acgtttgaat tgtattatcc 180
 attaacttcg ggtaaaataa attccgaccg ttcggtcgtg ccgtaaccac gttggaaatc 240
 aaaaagaggt aaaaaataat ataataatca aaaagacatc ttttagtaaa ataaagcgga 300
 aaatcaatcg gacgttttct ctttgggatt tctcattctt aatcgatgg attaataact 360

aaagtgaaac taaggctaaa atcaactcgc ctagtcaag

399

<210> 3815
<211> 407
<212> DNA
<213> Glycine max

<400> 3815

tgcatgattt acattctccc cctttcttaa gcaaattctt aattcttctt gacatcatca 60
aaatcttcat gatttacaca aatagttttg tctagttatt ttgctagaag tataccaatt 120
ttatatacct tcaaatttgc acatgcattt ttcctttcta attaaaatta tcttaatctg 180
ttgtaattaa tggtaaaatt tattttctta atctattgta attaatatta aaatttaatt 240
taataattaa tatttaaag atagattaaa tataaataat acataaacct cttattttta 300
tttaatatat catttaaata tttatttatt agataaattt taccattaat attaattaca 360
atcatgctaa tatatattat ttttaattat ttatattttt tctgatg 407

<210> 3816
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3816

agctctanga cctctaatat aatgtttgtc tcttcggca aatgcaaact agaccacctt 60
ttgtttctac gctagctagc actgtcttgg atgcgtacca agtagaactt atgccaatta 120
aagctgcacc aattttaact gtgtctctgc taaattggca ccaacttatt accccctata 180
ttaaagacaa aataactcca tctacttcaa tcaaatttc cttctttcat gatctttctt 240
tcaccagcta gctatgcacc cattccaaag ttaatttaag ttgatactgt aggggtggctt 300
cataattaat acttgtctgg gttgttttaa gaaagatttt tatttaagga aaatcgatct 360
tgaaagagaa tcattaaatt cgactatatg atatatttta atta 404

<210> 3817
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 3817

tactatctta acacgtgaac canacgttnt catgtacatt tttttagcga cagtgtctaa 60
ttaagtgcaa catattgctt tggaagcaag gttacgatca ccggaaacaa cgggtgtctct 120
tgatcggtat caccggtttt tttctgatgg atttttttca ccatgatttc attcaaattg 180
acaaattcta gagcatgact tagtgtggag agaccaactt acatatttgt agggagtttg 240
ggccttggtta tagggcccat cgccaactgg taagcctggt accataaata ttatcctact 300
tttatgatgg aaaggaataa ttgtccaaaa taattatgtg tagagcaatg ccaatgccaa 360
tgccatgcgt cccanagtgg aaatcaacta ggatttgcatt ttacgaaata naatactgat 420
ttgatg 426

<210> 3818

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3818

agctnttana attatttttcg cctctttctt ctaataggag atcagggaca gttggttggt 60
gataatacag ttttaagggt gttttccaat gtttggaatt tattggatta atgtcttttt 120
ccgatactga acctatttca attgtttttt ctaaattttg gtcactatct tcattaatga 180
aattaattaa tttggagggtg cttcttggtta ccatttttga agttcctttt gaagggtggg 240
gagtttcaag gatgactcta agtaaactat caagcttggt taataattca ctattattgt 300
cacctactcc ttctataacg gacttggttt tccttagttc cctaattttt tgttatectt 360
gtcactaatc ttgnaagggt tgaataaagg ttttctatg 399

<210> 3819

<211> 429

<212> DNA

<213> Glycine max

<400> 3819

tgaggtcctt cattgcaaag atgttttttca agatactata ctcactctggc acttcaatat 60
tcaaacttct tgcattgatcg agaagagagg ggaaagcaac ttcaaaccgg ataggcatat 120
gttctgcatt ttcatcctga agcttggtaca aattctcctt aaaaaatgac attcctgtta 180

catatgaatg catatataca caatagaaac attaaattaa cataaacgtg ctgataaaaa 240
aataacattt atatcataat actttactat ttcccggtcc tcttctttta ctatggaata 300
gaggtgtgaa agtattgcag aaaagaaatg attaagagta tgtatctaac aaaagaaatg 360
attaagagta tgaaaatc tgggttaaaa aaaaaagagt acgacaatat cacagtcagc 420
aaggaattc 429

<210> 3820
<211> 274
<212> DNA
<213> Glycine max

<400> 3820

aataaaatac cagaatgcc catgtgaggg gcccaaaca aactcacata aaacaaaatc 60
tatagctagg aagatcaaat ttttctctaa aggaaaactc tttaataggg taaactatat 120
ctgaccaaata aaaactcacc tcatgaatac ccaaattagc tacaccactt gtacaactat 180
ttccctctct aaaaataaga gacaccacaa aattcaatga atttgtgtaa gaaacaattc 240
atctagcaat ttctcaagtt ccacggcaca atgg 274

<210> 3821
<211> 421
<212> DNA
<213> Glycine max

<400> 3821

taacaaaaca catggaaatc aaattattaa ttgataaatg aagtcattca ctcatgccat 60
actccttaaa ataaaataaa aaaaaaaaga gtagaaacta aagctgtaca gaccatatta 120
actaaaagaa attcaagatt gaatgatata taaacaaaaa gcaatctagc atcaactgtc 180
ataaacacag attttatcca aatagaatac acttatacac ccataatgag aaatgagaca 240
gccacaacct aaagtcccaa actaattgag ttccaattct atcagcattt tataacaacac 300
acaacaatcc cttcaattat tatcactcaa aaaatcttat aaatagggaa aggaaacagg 360
gttgtagctg tggcaccatg agcaaaatga cacttattgc caaaggggca ataccctgtc 420
a 421

<210> 3822
 <211> 356
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3822

agctntgagc canaatcctg acacaccata taccttgacc cagggtgaga atgtcaattc 60
 ttaccctcgg aagcaaaaaa aaaggggaga gggaaaattt ccaatcaaag aggaagcaaa 120
 aaaggagaga aggaaaattt ccaatcaaag gaaaaaaaga gaggaaaggg aattcccaat 180
 caaagagtgg gagaaagcaa aaagaaaaga aagaaaattc ccaatcaaag aatgggagaa 240
 agaaaaaaga gaagaagaaa gggaagaaag ttcccgatca aaaaaaaaaa taatatgcag 300
 aaaggtcttt ggaccggaca atatctgaac aatacagaat tgtcaccaaa tgaata 356

<210> 3823
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 3823

 tataagaaca aaattgcctc aatcatttcc aaatatgcat gtgaattagg atgcatcaac 60
 aagaatcaag ccaaggctat tgtgcaagca atcaatgggg caaaacacac caaatgatta 120
 tgatgatgga tggctcaaat tctcaciaag gtaaaatcat cactttcaaa ttgagctttc 180
 aaaactatca tgacatgtag agaagaatca aggatttcaa gtcacaaaat gtcaagaact 240
 tttattttca aaacacttac ccatttcttg aacatatact ataattcaaa gataaacatg 300
 caaagtcgta cgtgcacaca aattgacca aaatattaaa ctaaaaatcc gacgaaacta 360
 acaacattaa caaattaaca caactaaca attaacaata ccaacaaaac tagcaaaacc 420
 aaagaacact 430

<210> 3824
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 3824

 tcctctcagt cacctgcggc atgcaagctt gtaaaaaggg aagcaagtta aaaactcttt 60

tcaaagtaaa aacgttggtt ctacttcaaa accctttgaa ctacttcaca tagacttatt 120
 tgggtgcctct aaaactatga gtttgggtgg gaattactat ggcttagtta tagtagatga 180
 ttactcaaga ttcacatgga ctttggtttt gaaaaccaa gatgaagctt ttgatgggtg 240
 ttgcacactt gccaaaggta ttcaaaatga aaaaaggctt taacattgtt tcacttagaa 300
 gttatcatgg aggtgaattt caaatgagtc tcttgaaatg tttgtgagaa aat 353

<210> 3825
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 3825

tgaagggtgt tagtccacca tcttttcata gtagaatact agtaatgtgt ctactatcat 60
 tggtatcatt ttttctcgt cattgagggt ccacttgagc ttccaggctt ctttaccttt 120
 gggcgatttc tttgaaagat ctgtgcccct ttttgacat gttctgttgt tgcacccat 180
 ccggaaccat atcaaaattg tactgatact gcctaacgaa ggcaaccatt aggtccttcc 240
 aagagtggac tcgagaagggt tccagggttag tgtaccaagt aacagctacc ccagtaatat 300
 tttcttgga ggaatgtatc agcaattcct catcttttgc gtatgcccc atcttccgat 360
 aatacatctt tagatggttc ttgggg 386

<210> 3826
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 3826

agcttcattg cttcatgatg atgaatcatg attgattcaa ggtgttttga tgataacaaa 60
 gatgatggca aaaagcccat gagaatgatt tcaagattga gtcaagaaca attcaagaat 120
 caagagaaag attcaagaga agtttcaagt ttcaagtttt caagaatcaa gaataatcaa 180
 gatcaagatt caagactcaa gattcaagaa tcaagaaaag gctcaatcaa gataagtaca 240
 aaaaagtttt tcaaaacatt gagtagcaca tgaagttttc aaaaagctt ttaccaaaaga 300
 gtttttactc tcgggtaatc gagataatca attaccogtt tactgtaatc gattaccaat 360
 ggcaactttt tgttttcaaa agctttaact ggattataac 400

<210> 3827
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 3827

tcttctatat atagacttca tcttcaagta tctattgtct tacaaccggt ggattcttca 60
 cggttcttcg tctgagggtc tgaaactggt agagcattta atgcttgcat taaatgtaca 120
 tccctttttt catgcaaatt ccatgcttga taggttggca tgtcttgtag ttcagtaaga 180
 aagtcacttc ttccatcata ataggctctgc actagcaaatt catgcctttt gatgaagatc 240
 ataactttca gactgtagac ttcattttatt ctccatagaa ctttgacaaa tcccaggaga 300
 atgttttatg caagagagaa tcttagacac agattattaa atgacgatct taaatgcact 360
 ccttaatgat atgctagatt gtcttatatg gacgtatggt tgaaaac 407

<210> 3828
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3828

agcttggtga cacctttctc eggccaatat attggtaagn ttcctattgt tataactcaag 60
 aatctcttgc tttgcaaatt atctatatgt ttcacacccc atacatttgg gtaactcatt 120
 gatatttaatt acaaaactttt attatgcaga ttaacagggt gaagctccaa ttatgattaa 180
 aaaacacggt gaaaaaacat ttaagaaact acatttaagt tttgtccatg gaattaaact 240
 ttcatatattg tcccttaaat tataagcaac aatcactcta atcctgattt ttttaaaggg 300
 aaaaatatgc ggacaccttt acagactatg tctctttata tctcttatcc tatcacagta 360
 tatattttca gctatgatgc ctacactttt ctctagggtg catttagctc tt 412

<210> 3829
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3829

acagcttcga tntaatcatt catgggtccc acccaagcta gcctcttcgc cacactgatt	60
tatgtaagca aagtttgatg aagaccaact tcctagcata atgggccaag gaattttcag	120
aagaccaact aacaactttg cttttattat ttcaatgttt ttaaagacct ttatgacttg	180
ggccgtgaga tctagatttg atttggagat ggtgttcaag aagccccaca tgattaagct	240
cttttttaggt gccaggaagt aaaattgtta ttgtatattg attttgattt gattaagggc	300
tacaaaaaatt ataaatgact atatttctag ttgttataat ttactaaacc gctattaatt	360
tatgaggatc ccaatctctg acattagtgt gattaaatga actaaaccaa ttcatatcat	420
gt	422

<210>	3830
<211>	404
<212>	DNA
<213>	Glycine max

agcttgggtg gatgtgtgta catatcattg tagaattctc aaatacaata acagatcatg	60
gtctcattga ggtacaaacc cataccttcc aagttctgga tgtcgaagaa gtgttcaata	120
tggacgatta cttcgttctt agtgtgaatt aacattgtct caatcttagg aatgtgctct	180
tcatacgatg aggcatcact tccacttgac attgttggaa agattaaagc ttttttggat	240
agggtttttg tttagggttt aagaacggtt gggagagaga aagagttag ggttttcttc	300
ttcctcttca ttattggcat tggaagttgt tgattcattg tcatcccaag ngatatattc	360
cttcttcttt gtgttgaatg aacccttatt cttcttctct catt	404

tgggagatag gaacatgtta gatggagtgg tcattaccaa tgaagtgatt caagaggaaa 300
 atcgttaagt taaatcatgt gtggtgttca agacaaatcc tggagtgggc attgtcaatg 360
 aagtgattca tgaggcctac cagtttgggg ccgatgcttc tagactaact ac 412

<210> 3832
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 3832

agcttataag aacatatttg cctcaatcat ttccaaatat gcatgtgaat tatgaagcat 60
 caacaagaat caagccaagg ctattgtgca agcaatcaat ggggcaaaac acaccaaatg 120
 attatgatga tggatggctc aaattctcac aaaggtaaac tcatcacttt caaattgagc 180
 tttcaaaact atcatgtcag gtagaggaaa aacaaggatt tcaaatcaca aaatgtcaag 240
 aggctttttt tttcaaaaca attaccatt tcttgaacat atcctataat tcaaagaaaa 300
 acatgcaaag tcgtacatgc acacagaatt gacccaaaat attaaactag aaacccaatg 360
 aaactaaca cattaacaaa ttaacacaac taacaaatta acaaaaccg 409

<210> 3833
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3833

ntctaaagtt ntttggtttt tccatacctt gaaaaaaaaa agtgtgctat tcatttttct 60
 ttctcttctc cctttgctaa aaagaattcg ccaaggacta accgcctaaa ttctttttgt 120
 gtctctcttc tcccttttcc aaaagaacga aggactaacc gcctaaattc ttttgtgtct 180
 cctttctccc ttgtcaaaga attcaaaacg acacagtctg agaattcttt tgattcttcc 240
 ctttccctta tacaaaagat ttcaaaggac taaccgcctg agatatcttt tgtatcccc 300
 ttcacaaagt ttcacaggac tagccccctg agatctttgt cttaacacat tggagggtac 360
 atcctttgtg gtacaagtag aggggtacaac tacttggg 398

<210> 3834

<211> 561
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3834

cacgcgtcca ccactactca catanaanta ctatanntgn ttntantnta acatnnnnan 60
 nnaanacacc cgacgaagcg nngattgatc cctngagaa tcgaanccac tcgaaccctg 120
 agacactcta taaactcacg ctcacaacag caggcgggcg agaatacaca tctactgagt 180
 tcaggtcatt ttgtgcaaca aatggcacga aacatcaagt gacagcacc tatactccac 240
 aacaacatgg ggggtggacag agaaagaata cgaccctctg cgaatatgct gagaagcacg 300
 accaaagaaa aggggttcacc aaccctctg tggggcgag caactgctac tgcagctcat 360
 ttgtagaaca gatgtccaac caagagagta gagcatgcac acccgaataa gctcggcagg 420
 aatcaaaccg tgtgtgaaac atctgagaac gcttgggtcca ttgtgcccc tgacacacacc 480
 cgaacaattg agtaagaagc cagatgacac ggctcaatcc ggcgtcacgg ccggatatca 540
 ctaacaaggt gatacaaatc g 561

<210> 3835
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3835

agcttnttgg agtagaaaca tggttccttc tcattttatt tcaaaaagtt gtatctagtc 60
 aaggctctgag agaccataca agtttcctag cgattttctaa ttatgtgggc cattaagtct 120
 atcatacgct gacaatagct aagaagccca tgaatttctt tggggggcgga gtaggtgtcc 180
 gccatcgct tggcctttgg ctaacaatcg ggaagttctt gactccggt caaggtaaga 240
 gcanaccgat tcatccacat gggtgcctct tgggtgaaag agtcgatcac ccttcctcta 300
 gcctcttttt ccgcgtatat ntgggcatac tcgtccgcga ccctatgctc gtggggcgtg 360
 gctagaccta actcttcttg gtact 385

<210> 3836
 <211> 374
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3836

tattgttttaa ctactctntg agtgtgtgat tctttatatt ccataaaaca ttgtgttttt 60
gaaagtcag agtggcttag tgaattggtg ctggcagctt gaacatgcga acttgtaaca 120
attactggga attggtcact acgaattttg agctganatt tttactgcat tntctagaca 180
tttggaaaaa taattagaaa aaaagaacca agtgatttgg ataaaaggaa aaaataatca 240
taatcacaca agttggcggg aaaatcagtg tccaagataa atagtgaag ggaagtgtgc 300
ttgttgtttt ggctcanaat ttgttctata attggcgcct attttatacc aatcttagtt 360
ctgacaattc aatt 374

<210> 3837

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3837

agcttgtttg aaacctgagg gatgcctata gcagtcacct tcttagttac caaccaaacc 60
tttgtgcca tgcttggtcc acgtcggacc aaagaaaaag gaaacagaaa aggaaaaggc 120
cgaaacaccc aaaagccaaa tccccacca aaattcaact tctaaaagt cctattggcc 180
catgattatg catgttatcg ttgatttgat aggaaatgat ttgcaaagtc aaatcatgac 240
atatctatgg ttggaatta ggatgaaaca cttgcatgtg tgagatttta tacactntga 300
gtggttttcc tctatttcat tcgcaccag tgtttcttct aaatgccctt ttagaaatga 360
aatgctaata tcccacaatc tca 383

<210> 3838

<211> 387

<212> DNA

<213> Glycine max

<400> 3838

tctcaaggag gtgagcttag ttatgagagg ggtgtgtgta gctaagctct agcttcttaa 60
ggaagttttc tcaaagaagc ttctcaagga agttttctca agaaatcttc tcaaggaagc 120

tacctagtct ataaatagaa gcatgtgtaa cacttgttgt aactttgatg aatgagagtc 180
 ttatgagaca actcaaagtt caacttctct cccctttttt cttccttcaa tttcgtgctc 240
 cccctctct ctttctctcc ctctttcttt tctccattg aagcatcctc tccaagcttc 300
 ttatccaagg ctcatcttgg tggatgaagct ccttcttcca tggcttattc cctagtggat 360
 ggcgctcct ctcacctctt ctctttt 387

<210> 3839
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 3839

acaaagaata gggtcattca taagcttctc ttttaataaa ttataagttt tctcatgcac 60
 atcagtccac ttgaacacca catccttttt tacaagttca tttaaagggtg cagcaagtga 120
 actagctaaa ccacgaaaac ttcttacctc attagcattc ttaggtacag gctattccct 180
 aagtgccttt actttttctt cctcaacact tattcctttt gagctagtga caaaacctaa 240
 gaatacaaca aattcatggc aaaaagaaca cttttaaaga ttggcacaca atttattttc 300
 tctcaaaaca ttaaaaataa catgtaaatg atcaacatgt tcttctaag tttgctataa 360
 atcaaaatat catcaaaata caccacaaca 390

<210> 3840
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3840

tacgaacca aactttntaa acttcaatgc aagaaaacat actcatgact aggaacccaa 60
 agtttggttt taggattaga aaagcatgaa aatagggact tgtttgtaaa aatttgggct 120
 gccccatgat tggcactttg cacctaagta acgtgggaga tgcttttcaa tgggtgtgtag 180
 ataagtgtgt aaatatatat ggcataaaaa tatgtatata tgtgaatata tggcatgaaa 240
 ataccttgca aagtgaatga atagtaaata atgcatttca aaaatgtata tttatggata 300
 ggtagcgtaa aaataccttt taaaatatgt atatttgtgg ataggtagca taagaagcct 360
 ttcaaaaaaa aaaatgtacc catgccaaaa atggcacaag aatgcttccc aaatgaatat 420

atgatgtgga

430

<210> 3841
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3841

agcttcaccg gatgatgccg atcgaaacatt tcctaatacga catcatccaa ttgttattca 60
gggattgaat aaaataaaca atggccggtg tcggtcgtta tatggccccg actgatatct 120
ttcagccgac attgcgcaat ttctttttaca aacgctagcg ataatgtttt tttttttgtt 180
ttttacggta gaggaagttt tttgttttgg tgttgccctaa aaaatttaca atgtaggtcg 240
gctaggtttt tccgtgagcg ctcaaccgag gggttcgttc gaccgacact ggcatgtagt 300
tcttctcatt taagaggaca agacaacggt ggcccatccc ggcaaaaaca nnnaaaaaaa 360
cattatcacg gaaattgatc gaaaaaaatg 390

<210> 3842
<211> 433
<212> DNA
<213> Glycine max

<400> 3842

ctcagcttat taagaggctt ctagcacact ccagacatct tctcatagat cccaacggctc 60
agatcatgga agcgtgtttt gtgaagttgc agaccacatt tcgagacgat ccaacggtta 120
atgaaggcca ggaagcggtt ttaccgagcg agcttcatgt agctttctct agaagcttca 180
ttaagaggct tcctctagaa gcttcctcgt ggcttctttg agaagttttc tcaagaggct 240
tctttgagaa gctacatcct tatctatcca tcctctatt aactaaatta acttccttaa 300
aaataattac ggatgaaaat aacgcaaca ataatacaaac atcaaacata attactaata 360
atatatagat atatatatca ggggtgttaca catcatatat tgagacgctc gaaattgaac 420
aatggaagct ctc 433

<210> 3843
<211> 413
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3843

agcttgangg attggtcttt gccagtgaaa ggatcgatgt ggggccgaaa agaggcaaatt 60
ttgatcatcc tactaggacg actgagaaaa ctggggcaaa tgaagagggt gagaaagagg 120
gagaaaccca tgctgtgact gccattccta tacggccaag tttcccacca acccaacaat 180
gtcattactc agccaataac aaacctcttc cttaccacc aaccagttat ccataaaggc 240
catccctaaa tcaaccacaa agtctgtcta ccgcactttc aatgacgaac accaccttta 300
gcaaaaccaa aaacaccaac caaaaatgaa ttttgcagcg agaaagcctg tagaattcac 360
cccaattcca gtgtcctatg ctgacttntc tccatatcta cttgataatt caa 413

<210> 3844

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3844

ntgcttgctt ctacagcagc aaagtttccc taaggtagctt acaattttta cgtgactttg 60
ttcagtgcag cacatatgca tggggacctg ccgtgcatct taatccaaat gtaggcatgg 120
gaacgatgca cgactttggc tccaaagagg acttctcccg taataaaaaa taaatcactc 180
ggacacaagt tacttatttt aaaaataaga ttccatttga aaataattaa taatgtaacg 240
cgagtccact gatgatttca ttttttttta ggtgggttga acgtggaaat cagcatattg 300
gcaatgatga tctaatagtt tttgttgca aattggatat catgaaacga catgaggtaa 360
gaagatcgta atgtattcgt taaacaataa atacaatgac atgtttaagt gaaaattaac 420
aatt 424

<210> 3845

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3845

agcttagcta ttntccgtcc attntcttca agagtaatta ataattatta tcattttgga 60

tgggaaaata aaaggggtgc tgcaaccaat ttggttccat actaaccacc ctttgatcc 120
 aaggttttca tggaaatatt gaatttgact ttatctttgt tctttgggtt ttggaacaag 180
 atatttgatg tatgtcccaa caaaagtgc cgcaccaac ttaggaaaca acatgcatgg 240
 ccttaaatac actaaacaat ttaagggatn gtttggttga ctgtttttta ttttcatttt 300
 cactgaaaac aggaaatggt aataaaaaata tgtttggttg gatttttgaa aacattttca 360
 gtgaaaatga aaattaanac aaccagaaaa tgaanataat aaaatttcgt tttcagtatt 420
 tcaattg 427

<210> 3846
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3846

tgcanagctg aaaggacaaa ggtacgtggg tgaagaatcg tggaaaaagg attgcttgaa 60
 catctgtgaa agcactgcat gaaaaaagaa tggaaaccaa cggtcataaa tgataaaata 120
 gatccaaaaa actgtttttt tttttcttat aaatattctc ttccgatggg acttttggtc 180
 aaaacattat tgaatacgaa attgaattaa actctttttt tctaacaaag attcacacct 240
 taatttattg agttaggagg gactaacctt tattgctata cccaagctcc cataatacga 300
 aataaatcat ttttgtaata gagaattaaa tagctcaatt ttttaatgtt aaaaataaaa 360
 tagtgtggat atacctatgc ttttttaccg ttaaaaatgt tttatatttt aactatatat 420
 tatctttt 428

<210> 3847
 <211> 349
 <212> DNA
 <213> Glycine max

<400> 3847
 gtcacctgag gcatgcaagc ttgatgtcat tcaaaagaca ctatgtcgac ctaaattgatg 60
 actaaacatg cattgtttat gtaattggat taattatgcg atataatttg gtgtaaccga 120
 ttactaacta attaataatta ttaagtactc gtttggttaa acaaaaaaat tgtcgggtcca 180

“五子”

<400> 3848

<210> 3849

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<225>	3849
<400>	3849

<210> 3850

<211> 412

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3850

 ntgatctacc accaccaccg ccaccatcat cttagttttc tattatgttt aacattatta 60
 gtactttgat ttctagccat gtatttggct atattattat gacatttgaa caatttagta 120
 ttccatttat ttgcatagta tgattgaaca attatgaatt atgttaaatg actatgtggt 180
 ttttatatat ttgatctatt catgttactt gttcatgat tggtttatat ttttcaatga 240
 atatcttggt aatgattagt aatgtatgta tgttttatat ttgttacgca ctttggcttt 300
 ttgttgatgc caaaggggga gagaaatggg gattaaatca agaactcaca taagtaatta 360
 acttaatttc aagtgaagca tataactcaa aacaaagggg gagaatatgg ag 412

<210> 3851
 <211> 387
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3851

 agcttgggta gagtttgtct tgtgcagtaa gaagtgggcc tgacaaaata ctcataactt 60
 tgagaaagtt attgaaactt gggtactagc taagaactga atgtaatctc agtggttagaa 120
 acaagccaac ataattttgt gtcttatgta ctctactta taactttgag ttgatttttt 180
 ttaaaatctc tattaattag aaaaatttgt tttcatcgtc tgatcggtgt tttttttttt 240
 tgaaaatctg ttatatgtct tatgcaatgt ttctttatat aacaatcttg ttctttttaga 300
 agaaagggtt ttaaaagttt ataanaatac aattcaagcc ctttattggg ttattngctt 360
 tataatantt aaaaaataaa taaaaat 387

<210> 3852
 <211> 418
 <212> DNA
 <213> Glycine max

 <400> 3852

 tgacacattc ttgataacaa gacaaacttc atttgcttct tgtttgtgac aactttgttt 60
 tcatccaaat gattttttgc atgagaatgt tttaaatagg aaaaaattaa ttttcatgag 120

aaataaattt tgaaaaaata tataatgcac aactaacctg gtagaattgt tgtctagaaa 180
 ttttcccaaa ttattataaa gtgatatcat aatatttaga aattttcttg cgaaaatact 240
 gttgtagggc aacaaaggaa caataattat gaaaaataga ttcttgtaat ttgtttggct 300
 cgagaaaagt atatgacata ttattaaggt taaggaaact ccctattaaa ttttataaaa 360
 ttcagagtta tctaagtatt ttttatattt aaaaatagca tttcagaata attttagt 418

<210> 3853
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 3853 .

agcttcatac tgcatattat tatgaaaata caatgttgaa agatcaatcc gacatcactt 60
 atcaacaaga gtccaattca atatggatac aattaatatg tcttagtcta attgtatgtt 120
 gaagaaccac ctacaactaa aggtcataat aaaaagagtg cagaaaagca attgggagaa 180
 ttgaatgatt aatttaacaa attgcaagaa aagaaagga aatcgagtga ttgcataac 240
 atttccagta aggcaatcaa ggggagtcgg aagggaaagt tgagatgaat ggctataaga 300
 aaggagttgg gcagaagata gagccaggaa aagtagaggg agagtgctag ttctctcata 360
 tgccatgtgt tgtcttttta tagtttcagt ctttaattgt cattgtgagg ggataata 418

<210> 3854
 <211> 411
 <212> DNA
 <213> Glycine max

<400> 3854

tctgaaatat gaagtattaa cctatcaagg ctatcgttcc ctttaacatg acctgacca 60
 ttctcagaac tccgcctaag tgaatgtacc tcttggtcgt agtctcttat tcctttggca 120
 aactcatcac acaaattctc caaaaggatc cgtgcttttc tctctctttc aagatttctc 180
 aaacaaccag agaaggaaga cttcacttca gaaagctccc tagccagctt ccgatgcagg 240
 ctttctgaat gctgacgtaa cctcctctca tcttctagct cttccctgat tgattgaact 300
 gcagctttta ttctaccatg ttctttgttc ttcctaataa gtttgtcaat tgtaatttcc 360
 tttatcaagt tctccacttc ctgcctattc atttgattct ctcgtagtaa c 411

<210> 3855
 <211> 339
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3855

 agctntgagc caattcaaac gacaatatct ttntactccg atgtctgatt gagtcccttc 60
 atatatcgag acgctcgaaa ttgaatgttg aagctctgag ccaattcaaa cgacaataac 120
 tttttactcg gatgtctgat tgagtcccgt aatatatcga gacgctctaa attgaatggt 180
 gaacctctga gctaattcaa acgacactaa ctttatactc ggatgtctga ttgagtgccg 240
 taacatatcg agacgctcga aattgaatgt tgaacctcta agccaattaa aacgacaata 300
 aacgtttact cggatgtctg attgagtcctc gtcatatat 339

<210> 3856
 <211> 397
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3856

 tcaacattca attntgagcg tctcgatata tgacggggact caatcatata ttcgagtaaa 60
 aagttattgt cgtttgaatt ggctcagagc ttcaacattc aatttcgagg gtctcgatat 120
 attgcggggac tcaatcagac atccgagtaa aaagttattg tcgtttgaat tggctcggag 180
 cttcaacatt caatttcgag cgtctcgata tatgatggga ctcaatcaga catccgagta 240
 aaaagttatt gtcgtttgaa ttggctcggg gcttcaacat tcaatttcga gcgtctcgat 300
 atatgacgag actcaatcag acatccgagt aaaacgttat tgacgtttga attggctcgg 360
 agcttcaaca ttcaatttcg agcgtctcga tatatta 397

<210> 3857
 <211> 281
 <212> DNA
 <213> Glycine max

 <400> 3857

 agcttgaatg aattaccacg aggcgggttc tgtaacgact atacatgact ctgaaggcgc 60

ctgttcattt cagagggcca tgtgccatct acggcgctga tctttgtggt gactgatgag 120
 accacaactt ccagcgtact gctggtgacc taatcaatcg actatcttta caggtattct 180
 gtaccttgta ctggacttga gaataacatt aatcgtgtca tttgtcgtct gaacagcgac 240
 cttggcattg aattagtgac cttagggttt agtgtcatgt g 281

<210> 3858
 <211> 154
 <212> DNA
 <213> Glycine max

<400> 3858

ctgtggctga caaatgctat atagcagctt cataggtcta atttaggccg cccctctct 60
 ccctcgcggg agacattatc tatccctgct atctctattc tagttgcoga aggtagggcc 120
 aagaactctt atctttacat gctatttaag cata 154

<210> 3859
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3859

agcttattct atttatagca ttcgtcttga agtatttggt gtctctcaat ggatggattc 60
 ttcactctac tcttcatcta aagtcttgag gttgtagag catttaatgc ttgcattaaa 120
 tgtacgcccc ttcttcatga aaattccatg ttgatagggt gacgtgctta cacttcacca 180
 agaaagtcatt taattccatt atagcaagtc tacatcaaca tagcacgtct tttgatgaag 240
 atcaacaatt ccagaatgtg gactttattt attcttcata ggaatntgac agatttaagg 300
 agaatatttt ttacaagaga aaatatttga catagagtat taaatgaagg tattanatgt 360
 taggtcaaag cttgaagccc tttgtttagt ttt 393

<210> 3860
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3860

tgtaacctgg acacggttga tgcccaagat cacatctttt tttcgaaaaa ggcgtgcgaa 60
 cgaaagtgca caatacctac atatattttt tatttttatt tttattttta tttttatttt 120
 ttttgaggta ttttgctacc taaacatgtg tataattttg tgagatattt ttgctatata 180
 catgcatatc caaggatatc tactaccta acatacatat atatattttg tgaggatattt 240
 ttgctatata catgcatatc taaggatattt tcactaccta aacatacata tatattntgt 300
 gaggtatgac taccttacga gcttgtgctt gttttattta aattcctagg atcatggaca 360
 attaggtgtg tcctactatg accaaagaaa caaagggtgat caaa 404

<210> 3861
 <211> 310
 <212> DNA
 <213> Glycine max

<400> 3861
 agctttgagc cagaatgctg actcactata taccttgatc cagcgtgaga atgccaatcc 60
 ttatcctcgg aagcaaaaca agaaggagaa ggaaaatttc aatcaaggac agagacgaga 120
 tttccatcta gaaaaaaagg tgagcagaga aattcccaat caatgagtgg gagaaagaaa 180
 tgtaggaatg aaaggatatt cccaaccta gaatgggaga aagtataaag agatgaatgt 240
 tctagatcaa agaaactaga atatatatgc agagaggtct ttggaccgga caatatctga 300
 acaatacaga 310

<210> 3862
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 3862
 tgcccagaga aggagtccac ggaggaaatg cttaccattt ctaaagactg gagagcggtt 60
 tctaagtact cctctgtggc ttccacatca ggcatagagg atgggcagct caccaagatg 120
 tctttctcgc ctgagacgat gaccagatgc cttccacta cgaatttcta cttttggtgg 180
 agtgtaagg gaacaactac cactgagtgg atccacgggc gcaccaacag acagctggac 240
 ggggggataa tatccattat ttggaaagta acttgacagg tgtgagggcc tatatgtact 300
 gtgagatcga tctctccoct agcctctcgg cgggtgccgt cgaacgctcg aaccaccatt 360

<210> 3863
 <211> 413
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 3863

agctcgaact cttgcacctc cttgaagttc aaccatgact tctcccaaac tttggcttca 60
 taaaccttct tttgcccacc atcttttgcc tccaaagtga tgggtgtacaa ggtaccagaa 120
 accacttgct gtttcgcagt taccaccttt tcaaactcca aaagggcatt ctgcatagcc 180
 atttacaatt caataaaaat aaaatataat tcatatttac cacaaaataa aaagaaaata 240
 gaagcccgtt cgtgggttatt gaaattgacc ctaccaatct atttattcct tgacataatg 300
 gaaatgcaaa tttatcctaa caatcaatta atttttggtg aacaaaattt tggngggaggg 360
 gtaatgcccc agtacaagac agaanaagcc tccaagctca aagaacattc aca 413

<210> 3864
 <211> 425
 <212> DNA
 <213> Glycine max

 <400> 3864

tccacaaaag gcatagttat ttccagtttc ctaacaatat caaggaatct cgctagatgg 60
 cagtctttgt ccttcttgga aggtaccaca ggatatggta cttccgtagc ctcatTTgaa 120
 gctttttctt tcttcttctc tcttgctttc tcaattctac tcttttcttt cccttcttta 180
 tttttttcaa ctttttcttt ttcttcattt tctttttctt tttctacctc tatttctttt 240
 tcttggtcat ttatttcttt ctctctgacc attattgggt tttcaccctc ctgacttgtc 300
 acatttggtta cctcttcttt ctttttctca gtgccatcct ttacaacaat atgtttctcc 360
 aaagccacct tatectcacc ctcaactacc aaatgcttct tgtttcttgt tatcacaaca 420
 ttaca 425

<210> 3865
 <211> 387
 <212> DNA

<213> Glycine max

<400> 3865

agcttatcac ctttatcggc aattgaaaaa agattttaat gtaagtcaag agcatgatag 60
tgtgtcgata ccattaactg gtcacagggt ctttaagcagg ccgagggcat caatattgta 120
tttggaaga cccaagagaa ggaaaaaact aaaacttcca tatggaagaa gaggtcgata 180
ttgtttgatc ttccatactg gtatgatcta gatgtcagac attgtattga tgttatgcat 240
gttgagaaaa atgtgtgtga tagtgtcatt agcacactgg ttaacattca aagaaagaca 300
aaggatgggt tgaatactca ccaggatcta gtttagatag gtatacgaga ccagttacat 360
ccaaggctctg atggtaacaa aatatac 387

<210> 3866

<211> 426

<212> DNA

<213> Glycine max

<400> 3866

tcttacatag tccgcctttg cttgaccttc tttatgctta aaaacagaaa cattaggcat 60
aggcaaaaga tcaagaggag ttagtgggtt aaaaccataa acaacttcaa aaggagaaca 120
attagtggca ttatgaacaa ctctattgta agcaaattca acatggggta aacaagcttc 180
ccaagttttt aagttcttcc tcaaaactgt tctaagcaaa gttcccaaag ttctattaac 240
aacttttggt tgcccatcgg tttgtggctg acaagtgggt gaaaataaca atttagtgcc 300
caacttgctc cacaaagtcc tccaaaaatg gcttaggaac ttagagtccc tatcactaac 360
aatgctcctt ggcaaaccat ggagtctcac aatctcctgt tggatcaagt ggcctcagaa 420
taatta 426

<210> 3867

<211> 282

<212> DNA

<213> Glycine max

<400> 3867

ctgcgcttcg agtgacacct actgctactt cacatttgat ctcaacggca gggctctctt 60
gcttttggcg ccgacagatt cttcacactc tcacctgata ccacaatcgg ttctcatctc 120

aatttttatg aaaaaacttg ttgtagtttt agcacgttca gtaattttcg ccgaggggta 180
 tttttttttt ttacaaaagg ggggattctt gttctaacgg gttattaaaa atttccataa 240
 tgaagtgagg ggataataat tgatatatac ttcctctatc tc 282

<210> 3868
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3868

ntgcacgtat cagtcaagtg tatggaccat atcatagcca aagtgctcat cgataatggt 60
 tccagtttaa acgtgatgcc taagagcact ttggagaaat taccattcaa tgcttccac 120
 ctaaagccga gttcaatggt ggttcgtgcc ttcgacggca cccgctgaga ggtaggggg 180
 gagatcgatc tcccgttaca gataggccct cacacctgtc aagttacctt ccaaataatg 240
 gatattaacc ccccctacag ctgtctgctg gggcgggcgt ggatccactc agtgggagtt 300
 gttccctcta cactccacca aaagttgaaa ttcgtagtgg aagggcatct ggtcatcgta 360
 tcaggcgagg aagacatctt ggtgagctac ccactctcta tgccttatgt ggaggccgca 420
 gaggagt 427

<210> 3869
 <211> 441
 <212> DNA
 <213> Glycine max

<400> 3869

agtcacctgc ggcatgcaag cttaccatgg ttcattccatt tgcttaatgg tctgcaacat 60
 aagctagagc cttgtttcgg tgcctaattc cagcttccaa agttgctgat aactgttaaa 120
 tatgagttgt tttttattat aaaaatataa tgaaaatata tttaaaatat ttatttaaca 180
 gttatttttt acttaaatat taaaaattga tatttttctt atttatggct tgtagatatg 240
 aaaaggaggg ataaaatcca aaaatatgca gaaaatatca aaaatatgaa taaggaagat 300
 ttttgccatc aggtccaagt ccactccaac aactataaaa aaggaatcaa gccaaagcaga 360
 aaagacacac cgagtctcag agcactctaa tacacaccta aagtctgaga actctccctt 420
 agaaatcttt cttctctctc a 441

<210> 3870
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 3870

tcttcattgc actaatgctc tcccttgaaa cagctccttc aggccatttt agatgtgatc 60
 cacgcttgaa atatTTTTct gcacccttgc tacatattga agagcaaag aataaaaaag 120
 aagttactac atttaaaaaa tatatattaa tgataggttt tatacaaaag gtataaacac 180
 ttagtcaa atatttataat ttaattatat tttaaaatat ttttaaaatt tactaattta 240
 ttgtaaccac tgtaaatattg gatctttaat ggaatcttaa atattctaac cactaataat 300
 cagtctttat ttattgataa gaattaaatc caatatcaaa gatttacaat ttttccacgt 360
 actaagactc atttgatagg ctaataagca gcctaataatc atacttaaaa aattataata 420
 aaaaaatcaa a 431

<210> 3871
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 3871

gggatcctct tagtcacctg ctgcatgcaa gctataagaa attttgcaac atcgttttgg 60
 atatttaaca agaacattct atttcttgac attggtacct tggttaattat attatttctc 120
 ccattctctga tggaaagact ggaatctttc atgtgaatat catagccttt tttgaggaat 180
 tgtcccaaac tcaaaatatt gttcttcata tttgggacgt agtagacatt tgatatgaat 240
 tcatgtcttg catccttcaa atggattatg atcttacctt tttcctttta taggaatatt 300
 ggaattatta ccaaattaag cattgccact tactgactca tcaagatcca cgaaacatgc 360
 ttctttttcca cacat 375

<210> 3872
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 3872

tcaaccttcg gtggctcttt ctgctccaaa tcgtgaatga aggacatttt cggagtcgtg 60
aagcgcgtct ctacgtgtgg gacttcgaaa tttcagggtt ggggtggactt ctttctcctt 120
tgattttcgt gggatatggag ttttgggaga tatgatgggt agtcttgcta gttttctgct 180
tcatgatagt tatttgtgaa gaaacttggt gaaagcatgt tgaaattgcc atgtttggaa 240
gagttaaaca taccattctt gttttagggt ttttatgatg atgcttgta tgttcatgtg 300
ctgaaattgc ttatggaaaa ctggttagaga tgaacggtat aattaaccta cggttagaaa 360
gtgaaaatgt ggtgttatga gtggaaaaag agtgaattgt tga 403

<210> 3873
<211> 416
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3873

agcttatatt ttactaaact tcgntgtgta tttaaatatg anaagaggat tntgctatcc 60
ctaaaggaaa gaaaaaaaaa atgaaaatac ggctcttgag tgttgtcagt gaatgactat 120
gagtgcacat gtgagagaaa attggtagtg taataaaaaa attcaciaaac aaccttaaac 180
agtaaaacaa atcatccaac accgagtgat aaaatataaa ggtataaagt atattatatt 240
attacttaat atatttaata aaataaaata ataaaaatat gtttttatca agtgtgggtg 300
atcactgttc ttctgtcttt ttgtgggaat aactctgtta ttaatatacc ttcttttatt 360
gaaattaaaa gaacgaaaaa taaagggaag aacaacgact accaactttt ttttac 416

<210> 3874
<211> 414
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 3874

ntaagctctg cagtttatct tattaataga gttccctcta gtgtgttaaa ctttaagaga 60
cctcttgatg tcattttctca tcatttcacc cttaatcttg tcaatcattt accaccccat 120
atctctggtt gtcatatatg tacattcgca tcctcaccaa caaacaaaat tagaatctag 180
agcaatgaaa tgtgtttttg tgggatacaa caccactcaa aagggatata aggccatca 240

tccatctaca aaaagatttt ttgtatcatt ggatgttaca tttcatgagc atgaaatggt 300
 ttttcccttg aaaacacttc attcttcacc ttatagggga ggtgatttgg aggtgcagaa 360
 tcatgataga cttgaccaag atatcagggtt atttgatatt atgccaacaa caac 414

<210> 3875
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 3875
 agcttataaa aatggatgat ataaagaatt tgaagaggtc atcagatgac ttggtatttt 60
 tagtttcatt ttttcccaag aaataacgtg tacctttcgt aaaagaattc tgttttcgtc 120
 cttttgtaag gaaaaaaaaa aaaagagatt ctgtttgaat ttgattaaac tattttctaa 180
 aaaaaaacta ttatgaatga taactttttt cttatcttaa tattttgttt tgctatatat 240
 taagattcta actcaaaatc attaaacttg tttataaaat aagtatcttc tacttccatc 300
 ccagtaaaaa tcccacatga aggagttaag aaagctagat tactttgtga ctcttataaa 360
 tataattaag atgaatatta cgaacacatc ctatgggttt atc 403

<210> 3876
 <211> 292
 <212> DNA
 <213> Glycine max

<400> 3876
 tagctaataa tttccacagt gaatgacttt tggttaaattt taatagaatt agacattaaa 60
 gtgggtaatt acaatctcga actaaagatt tattcatttg gtaattatct aaacatggac 120
 aatactaaat ttcctattca ttttatctca tttcatttca tttcagctc ctttccaaac 180
 aaaggcaagt aaaaaagggg gtttgacatc ctaactggat aatcgtaacg acaaacaccg 240
 cgagtattta cagcttgact gttgtacgtg cttgataagt gcacaacgtt ta 292

<210> 3877
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 3877

agcttgtagg gttaaagtct cactgattgtc acgtgttgat gcaacaatgg ttagtcgtgg 60
ctatacgaga catcttgcca aacaaagtca agttagccat aactcgctg tgctttttct 120
tccatgccat atgtagcaaa gtcgttgatc ctgtcaagtt tgatgagttg gaaaatgaga 180
ccgcaattat actatgccag ttggagatgt attttcccc tgctttcttt gacatcatga 240
ttcacttgat tgtgcatctg gtcagagaaa tcaaatgttg tggtcctggg tatttgcggg 300
ggatgtaccc ggttgagcga tacatgaaga tcttaanagg gtatacaaag aatctatatc 360
atccagaagc atctattggt gagaggtaca 390

<210> 3878

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3878

ntgattccta gnaaaaccat gatttctttg ttagcccaat catgttacia gcctaataaa 60
gtccgtagtg atccacattg agcatgtaca tagcattgac tgagatgatg tgcaaagttg 120
ggaattttta tattcagttg ttataattca aacactttta ccgagacact tatgggattg 180
agagaaacac tagccttggt ggtaaaatta agcccaggaa agcaagcgaa ttgaggaaag 240
aagggtctaat taagaaaaga agactaattg aggaaagaag ggctaattaa ggaaaataga 300
atatttaagg aaattaggct aattaaggaa agaatgacta attaaggaaa tcagattaat 360
tcagaagtc actaatctgc acctataana gaagaagaga g 401

<210> 3879

<211> 351

<212> DNA

<213> Glycine max

<400> 3879

agcttctact tatgtggcag ggcggtgtt ctacacctt ttgtctcaa cgcgaacttt 60
gaccattggt ctccctccc gcgatgtcc ttttcatgtc tgcttgagtg ggcttatagc 120
ctaaaccata ctccccacga ttaccttggg tatttatcag tctagttatg ccgccattgt 180
tttttctaa acccatccc ggctcataac cggtcccaa cataactcgg gccatcatta 240

ccgctgcac ggacagacta tgctgccc aa agaggagtc cacagaggaa atgctgacca 300
 cctcaaaaaga ctggaaagca gtttctaacg attcttctgc ggcttcaca t 351

<210> 3880
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 3880

gtgcttgtag aatctccctc tttttgatga tgacaacttc tgaaatcaag aaacacacac 60
 acacacactt tttcctagtc gatcactcac ataaatttcc attctcccc tttgtttttg 120
 aatttatgct tcacttaaaa ttaagttaat tactcatgtg agttcttgat ttaatcccta 180
 tttctctccc cctttggcat caacaaaaag ccaaagtgcg taacaagtat gaaacatata 240
 aatacaacta gtcattcaca caacaatcat ggaaaaaata taaactaatc ataccagaga 300
 acagaaaaca attaagcaag atattttaac cattcatcaa acttagaaac gttaagaaat 360
 ataaaaacca tacataattg acatacccca gaatagaaaa acaatcaaac agatat 416

<210> 3881
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3881

attgttcccc tgtccggccc gggatcctct gagtcacctg ttgcatgcaa gctttatgag 60
 aaaccattca aacatatgta gtttcttcac aagactgaat ggaggacgct ttagtcgaga 120
 gaccaccttg aataaccttt attccaacct ttcaagttag aggaaagagc tgatcgagta 180
 agtagggcac ttagaaaaac taaatcccta attagaggcg gaagtgcacac tcatagcgaa 240
 ttactaaacc agattactag tttgcttaag gtcaatgcag atacgtcccc agcttctgaa 300
 aatacttctc aaatgggaac gagacgatcc ttcacaataa ctaacggcat taatgaagat 360
 agtgaccgag actacataac cccactgata taggaccagt gtagtaaaga atataagtct 420
 taaatattcc aacactggaa accccctcca agaatan 459

<210> 3882

<211> 359
 <212> DNA
 <213> Glycine max

<400> 3882

tatgaagcct atttcgcgcg gctatctacc atacgtgtgt tgcattctata ctatgacacc 60
 aggtatgaga acaatgcacg aattctaaaa tgcaaacatt agcatacagg tcaatttggt 120
 aagaccatat agcaattgaa ttctaattgca tatataacgc attttatata tattcatatt 180
 acccaagagt ctacttttgc aatataactt tattgttatt aaacgttctg tgcattcacac 240
 aaaggaaaaa actatgtgta gtatgtcaca gatgatatac gtaaacagca tgtgtgcaca 300
 aacttttcac aacaaataat ttacaactga ctctaagagc ccatactcat ggaggatat 359

<210> 3883
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3883

agcttgtcaa anagggaagc aagttaataa ctcttttcaa agtaaaaacg ttgtttctac 60
 ttcaaaaccc tttgaactac ttcacataga cttatttggt gcctctagaa ctatgagttt 120
 ggggtggaat tactatggct tagttatagt agatgattac tcaagattca catggacttt 180
 gtttttgaaa accaaagatg aagcttttga tgggttttgc aaacttgcca aggtcattca 240
 aatgaaaaaa aggtcttaac attgtttcac ttagaagtta tcatggaggt gaatttcana 300
 atgagtctct tgaaatgttt tgtgaagaaa atggaattca ccacaacttt tctaccctaa 360
 gaacacctca acagaatggg gtcattgga 388

<210> 3884
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 3884

tgaaggtgtg tagtccacca tcttttcata gtagaatact agtaatgtgt ctactatcat 60
 tgttatcatt ttttctccgt cattgagggt ccacttgagc ttccagggtt ctttaccttt 120
 gggcgatttc tttgaaagat ctgtgcccct ttttgacat gttctgttgt tgcattctat 180

ccggaaccat atcaaaattg tactgatact gcctaacgaa ggcaaccatt aggtccttcc 240
aagagtggac tcgagaaggt tccaggttag tgtaccaggt aacagctacc ccagtaatat 300
tttcttggaa ggaatgtatc agcaattcct catcttttgc gtatgcccc atcttccgat 360
aatacatctt tagatggttc ttggggcaag tagtcccctt gtac 404

<210> 3885
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3885

agctttncac attgaattca gcacctaattg tcatattaga tggagattgg gtatcttaac 60
ataagagatt tcagatggac tttaatccta agcccacagc cgaccttttc acgagatctc 120
tacttaaccc tgtggataaa tgatcagccg aattatgctg agttctcaca aactccactg 180
atatcacacc atgcatgatt aactcccgaa ccatgttgtg tctaacaccc aagtgtctag 240
actctccatt atacacttga ctatatgcct tagccaaagt taatatgggg taaccttatt 300
ccttgtgtta ggaattcagt tcaacaagta acaggctgtc aacatagcct caccataa 360
tccttcactt acaccgaat aggataacat ggaattcacc a 401

<210> 3886
<211> 411
<212> DNA
<213> Glycine max

<400> 3886

tgtcatagta tgacatgtgc agatgaataa gattaggagt aggcgatcca cccgcaaaga 60
acgagtcatt aggacaatga gttatgatca aatcatgaag aagtgagaga ctctagtaag 120
catgttctac aatatataga aacggatttc aaattcttac aattagaaat tctaagactt 180
ttaagcacag agaaacaacc taaggtgaag gaagtcagt aataacatct attaaatatt 240
gtcaaattct ttaatgatgt gtaattgtgt aaggattcat aaggtaggaa ctccaatttc 300
tcacaattaa gtagagtaag agattgcaat gcattcagca gaccatctct taaggatgct 360
acggaattaa cgccagagat agttaagtct atgatgaaat aggcggactc c 411

<210> 3887
 <211> 472
 <212> DNA
 <213> Glycine max

<400> 3887

tgcacatcat tccccgagtc attcatccgt atttgatgtc gatgcagcat cgaagaacag 60
 aattgccatt ccttgatta tagggttgaa ccaagctaata gctattataa aaaggttcat 120
 caagacgagt ggaattatgg aagtaaccgc ctggcaaaat tggggcaaaa gatgaatcga 180
 gtcacatcaa tgcttagtct acttccaaac atatatagga ttattgatgt ccttgataat 240
 tccagttcct ccttgacaaa gatgtaatgg accatgttga aaatataaag tgattcaacc 300
 ccatatgctg tgtaaataat cccaatactt atactgcaca tcattcgcat gcatccatgc 360
 ttttcattgg ttgcaattgt taaatgcact ctttccttga aaaacaaaat aaaatgaact 420
 taatcattgt ttaacaaaag gaatgggaca cgctttacga cgcccttacc aa 472

<210> 3888
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 3888

cctaagattg gttgtagaat tctctaagca tgaaaatgag gacttggatg aagacttgga 60
 gctggccctt gattgggtact ctggccctt tgacacgagg gaaaagcttt acaatggagt 120
 gtatatatgg gggcctatat taggggcata aaattcctcc cctagtatga ttaaattggt 180
 ttctaaatg catgtatgat agcatggaat gcccttatga atgcaaatgt gggcaagaag 240
 tcattaactt tccggaatgc atatggataa atatgagtga gacaatcaaa atttggtgccg 300
 ggtacttcaa atgtgttgaa atagtttggg ataaccaa atgttaagatg taaattatgt 360
 gccagtttg acgcagccct ttgcgcatga aagtgtggtg ctctttttta caatgtt 417

<210> 3889
 <211> 614
 <212> DNA
 <213> Glycine max

<400> 3889

agcttgataa taacttgaag gtttgtatca taaatgaata ctgtggaagt tatcactaaa 60
 cacgcttata aatgagggaa agaaaatttc aactcagcgt tttgtataat tctgctacca 120
 taacttattt tagcaacata gtttacgaga agataagaaa gaaaaggaga aattcaggat 180
 aagacgagtg acataattat aatttatgta aaaatattaa aacgagttca aaatgaattg 240
 gtaaacaatt tattattaat aatatatcat tcatataatt actcttatta tataatattt 300
 tccctttatt tttttatata tcacatgaat aacaatatta ttttatattt tattcttttt 360
 cttttttttc ttttttttta taaaaaatac taacaagtat ccttaggata ttagttactg 420
 aattaaaaaa aaaattcttt tacattctct cctcttctat aattttcaca acaaataata 480
 tattttcttt caattcttta ccaattttat aagaatacta ggcaaagaaa cccttttctt 540
 atttcattta aaataattat atatatttat tgtgtaataa atacaatttc tcttaccttt 600
 aatttaatga attt 614

<210> 3890
 <211> 532
 <212> DNA
 <213> Glycine max

<400> 3890

tgacattcta agacgatcat gatgtcaata ccgtctttga aagttgagat tttctaagac 60
 ggtgtccctt cgaccgtcgg taaaagttag acactttcaa cgatgtaga ttcaaagacc 120
 ggcaaacacc ggcattgttt gtctctttcc acccgcttg aaaccgcttt ttctaccagt 180
 gccatcaagt atcaactaat aaagaattga attattccct ttaatccttt tcataaaaaa 240
 taagtaattg tgttaaaaaa tactactatg ttatgacttc tttcgtaatg attggaacta 300
 atatgcaagg ctttaagcct tagtttcttg ttttttttcc tcctaaaagt gatttttgaa 360
 agttatccaa acagggcctg agtatgtttc tgtgattgcg aatcaattca tgttttatgt 420
 ttcagaccat taatggaatg ttctgtatgc atgcacagag ctaagtttat ttagttcaga 480
 aaagggata gtgagtcctg gaaagatgat gcttgccatg tccaactaca tt 532

<210> 3891
 <211> 312
 <212> DNA
 <213> Glycine max

<400> 3891

agcttatgct gcaaatatTTT acaatagacc tcctcaacct cagcagcaaa atcaaccaca 60
gcagagcaat tatgacctTTT ccaacaacag atacaacct ggatggagga atcacccTaa 120
cctcagatgg tccagccctc agcaaacaca acagcaacgc tgctccttcc ttccaaaaag 180
ctgctggccc aagcagacca tacattcctt caccaatcca acaacagcaa caacccca 240
aacaaccaac agtttaggcc cctccacaac cttccctoga agaacttgTg aggcaaatga 300
ctatgcagaa ca 312

<210> 3892

<211> 613

<212> DNA

<213> Glycine max

<400> 3892

aatgggatgg gaaaaatcat ctccttaatc ctgactaaaa tggttccatg aagaaagcaa 60
acaatacact ctttctaaca cacattttac tatttgTtaa aatttattga aaacaataaa 120
atcgaggggag agactcttta aataagaaat gagacccaaa aaaatttgTg atttctaata 180
aatttcaact aatagtagaa tgtgtgttca aaaaagtGg ttgctagcat tcctcatggT 240
tccacagata caataatgtt acagtttctc tcagcaaaag gaacagtctg gtgaagaaat 300
gtaaaagtca acagctaaat tcaagggtat tttctcttaa caggacatcc aagtaacaat 360
agccaaagta ctagaataat aataagccaa ctgcttatta taagttacat taattcaaaa 420
gtcagttgta ataataagtG aaaacttatg tatctttttt gtttctacat gtttcaactaa 480
atatgatcat ttgagttttg tttatatcac aacttcatgg tactcaaaac caaatgcaat 540
gttgatgacc ctcaatcatc ctttagTtaa ttacttaatg ggaagtcttg tgcaaatgaa 600
attatctaca tta 613

<210> 3893

<211> 629

<212> DNA

<213> Glycine max

<400> 3893

agcttgaagg taaactagat gccttggtta acctggtaac ccaactggcc atgaataaaa 60

aatctgcacc tgtcgccaga ctctgtggtt tatgctctc taccgatcac cacacagacc 120
 ttttcccttc tatgcaacaa tctaaagcca ttgaacaacc tgaagcttat gctgcaaaca 180
 tctacaacag acctctcaa cctcagcagc aaaatcagcc acaacagaat aattatgacc 240
 tctccagcaa catgtacaat cccggatgga ggaatcatcc caaccttaga tggtcgaatc 300
 cttcacaaca gcagcaacaa caacaacaac cttattttca aaatgctgct ggccaagca 360
 gaccatacgt tctccacca atccaacagc aacagcccca gaaacaacaa acaattgagg 420
 cccctccgca accttccctt gaagaacttg tgaggcaaat gactatgcaa aacatgcagt 480
 ttcaacaaga gaccagagcc tccattcaga gcttaactaa tcagatgaga cagttggcta 540
 cacaggtaaa tcaacaacag tcccagaatt ctgatagatt accttcttaa tctgtccaga 600
 atccccaaaa tgggagtgcc attacattg 629

<210> 3894
 <211> 707
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3894

ctctagcttc atgatgaatc aagattgatt caaagagttt tgatgatcac aaagatgatg 60
 acaaaaaggct caaaagtcaa gaacacttca tgataacaaa gatgatgatc tcaagaatca 120
 aagaatgagt tcaagattga atcaagtaca cttcaaggat caagaggaaa gttgaattca 180
 ataatacaga atcaagtttc aagattcaag ctccaagaat caagatcaag attcaagact 240
 caagattcaa gaatcaagag aagactcaat caagataagt attaaaaagt tttttcaaaa 300
 actaagtagc acatgaattt ttctcaaaaa ccttttatca aagagttttt actctctagt 360
 aatcgataac caaattattg taatcaatta ccagtagcaa aatttttttc aaaaagcttt 420
 caattgaatt tacaatgttc caattgattt caaaatggtg taatcgatta caatgatttg 480
 gtaatcgatt accagtatgt ttgaacgtta gaattcnatt taattgtgaa gagtcacatc 540
 ctttcacaaa atagctttgt gtaatcgatt aactgattt gggaatcgat taccagtgat 600
 agttttctgaa caaaatcaaa agatgtactc ttccatagat tttcaagggt ttctaaaagt 660
 cataactttt ccaaagtggt tttaagtttt tctaaagggt ataactc 707

<210> 3895
 <211> 616
 <212> DNA
 <213> Glycine max

<400> 3895

agcttgagtg ctttctgtta ttaacttgat ggctgatgtt gaatcagatt cacaaactaa 60
 gtagcgtaac gattagttaa ttgttctgc catttgtcca ttgaccaata gattagtcaa 120
 tattaatgaa tattggatta gtgggttttg ccattagtca attgacatta aaattgcttt 180
 aattttattc aattccaaca aaaatattga taaaaactaa aaagaattca ttaatatattg 240
 agcaaagtga aaatacattg gtcaattatt gttttgtag atgcattcat ccatcatttt 300
 atcattcgta cactgtaccc aaaaaaattc tatgaatcgt cttgctgtgt tattcatttg 360
 aattcagacc atcctcttta gtttcctgtt cataccatac cttgataaaa ttagatgttg 420
 gaccagaag tattattggg gtaatcattt aatttcattc tatacatatc atctaaactt 480
 gatttaactt tcgagttgtt aaacaatatc atgtatattg aaaaacatct atttaaagaa 540
 atcaacacct taaacaatca tggctttgaa gcatttctac tacttggctc atgggtgggtc 600
 tccgatcttt atttac 616

<210> 3896
 <211> 640
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3896

ttcaataacc cttcccactc acttacagga agcaatgaat gatgaaggga acaaagttaa 60
 cttgtcataa aaagtttgtg ttctatttaa tgtaactatg cttaaattttc cttatcataa 120
 ttgtcatgat gtagaattgt agttgattca gaggaatttt ttattttacat tttatgcata 180
 caatgcaatt tgtcatccat actcctatct attcactgat aataataaaa aaatactcct 240
 aagtcctatc tattcattta acataaaatt tctaaaacga gaattattag gttgccgttt 300
 cggcggtttg gttggcttta ttgtgtcgtg caacactttt gtatgtcccc tctttcaatc 360
 taagacgcca cgacatagat attcaattca gttttcactt taactttgta ttatactctc 420
 aagtctcaat cttttaaatt atttttattt ggtgtataat gccagcaacg gaatttgaac 480

ttaagacctg aaaactactt gaatcctcca ccactagttt gccttttcaa ttatttgatc 540
 tttatctttc gctttcctct tatttctaata attntttttc tttatatttc tttaaaaata 600
 ttccaaatcc atttatgtat gatcaatgga acttaataat 640

<210> 3897
 <211> 476
 <212> DNA
 <213> Glycine max

<400> 3897

agcttatect tatggcttgc ctccggactt taccctccat gccacccga aagatttaag 60
 ccaagccctt actttcgagg ggcaactccc accttatgac gactatcccg ggcaagacga 120
 tgaggaagga gatacccatc ttagccccct gctccacctc aaagatccgt cccacatga 180
 actaaccxaa ccgaacatag tccgccatat cccggcctca cccacacccg taaaagaatc 240
 tgttcccttc acggaagata agggaaagat tgaggcactt gaagagaggt taagagcagt 300
 cgagggcctt gacaattacc cattctcgga tttggcggat ttgtgtctcg tgcccaacat 360
 cgtcatcgct cccaagttca aagtaccaga ctttgataaa taaaaggga cgacatgtcc 420
 aaaaggcat ctccggatgt attgccgaaa gatgggggag tattctgcgg acgaaa 476

<210> 3898
 <211> 526
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3898

tgaaccataa ccggtgagag tgtgatatta aattgtgagt gaactactaa ctttgaataa 60
 taagtcttgc ctccattctc ttaaaattaa aatgaaatgt atgaatgagg acattatgaa 120
 aggctgaat gtatatccag ccattgacc aaaaatctta ccttggatta taattgtatc 180
 ttttgcaccc tttgtgagct aaattacact tttcaaattg aacctgaac ttgaataaat 240
 atctccaaat accttggtta gattgtaaga gagcagatag ttcaaggcaa attaccccaa 300
 aatttggggg agttgattgg gatgtaaagt aatggtaaa acatcagcac acacaataaa 360
 taagttgtgt ttaaaaaaag agagagagaa naagaaaaga aatcaaagaa aatgtgtgtt 420
 gttgtaataa ggtcaaagtc acattgaagt gaaaagctgg tgagaacgct aattggatta 480

aaaagaacat ttggataaat ctaggatttg tgctctctta gaatct

526

<210> 3899
<211> 394
<212> DNA
<213> Glycine max

<400> 3899

agcttgatca aaactcgaag gtgggtatca gatatttttt ctgcggaagt tatcactcac 60
cacgcttata gatgatggaa agaataatttc aactcacggt tgtgtgtaat tctgctacca 120
taacttattt tatcaacata gtttacgaga agataataaa gaaaaggaga aattcaggat 180
taaaccagtg acataattat aattgatgta aaaataataa aaacagttca aatgaattg 240
gtaaacaatt tattattaat aatatatcat tcatataatt actcttattc tataatgggt 300
tccctttatt ttgatatata tcacatgaat aacacactta ttttaaattc aattctttgt 360
cttgattac ttttctttga tagaaaatac taac 394

<210> 3900
<211> 276
<212> DNA
<213> Glycine max

<400> 3900

gatattctta gacgggtccc ttcgaccgtc gttaaaaggt aaacactttc aacgaagtta 60
gattcaaaga ccggcaaaca ccgtcattgt ttgtcttttt ccaccgacgt tgaaaccgct 120
ttttttacca gtgccatcaa gtatcaacta ataaagaatt gaattattcc cttaaatcct 180
tttcataaaa aaaaaactca ttgagttaaa aaaatctact atgatatgac cttccttcct 240
aattgattgg aactaattat gctaggcctt taagtc 276

<210> 3901
<211> 632
<212> DNA
<213> Glycine max

<400> 3901

agcttgaatg tccaaagagc aaagtctcca acaaaaatgt agaaaaaatt aacattcaat 60
taaaccaaaa accctaaaaa tgtgaaaaca cgtcttagaa ttctgcatag attttagatt 120

aatatgcaat tttgaatatg tgatatatgt gaaaggaact tttaatcaca ccgtaagtta 180
 taaaacaata ttatttagtt gaaagttata gaatgggtata ataattgtca atgttacact 240
 ggtgtaattt gatccttctt tatatattaa agtttttagaa ctcccccttga gtccaacatc 300
 ttttatgtat gctcagtaag atatataaga tcaaagtgga catgcataca tatgtaaaaa 360
 gcatagttaa gaggcgaaat tgaataatcc aaccaactca tttataaaag caacataaca 420
 tatgttacia catatatatt acaacaaagc atataaagat gaaagataag tctaagctca 480
 tgatacatca aaattccaat ttctccctct tatgtaatca acaaatacag gtttgaaaga 540
 tggaaaatga taaactatca ttatcattta tggctgctga ggtggatctt catttcgtgg 600
 tgaatttggg tgtggatggt aaagttgatc at 632

<210> 3902
 <211> 594
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3902

cgctacattt tacatgccaa tgaactagca cgacgtctta aggtatgcta acattttatt 60
 attttgtatc ctatctcctt agtcttgagt tagatgttac tctgggtgaaa gagtaaatta 120
 atagtttttt tttttactat tatgtggcat gtagttgggtt attgatagct acaattgatc 180
 aaaaaccaat tatggatatt ttacaataaa ttaatccttg agcccttcgg atagatacga 240
 ttagtttttt attgatcgta tccttatctt ttctgtttta tttttcctac cttgtctctt 300
 gaatctgaag tgtaatcaga ttgggttataa aatctctaac caactctgcc tataaatctc 360
 aatctttgaa aatttgaatg aatatgaaac aaaattatct ttcttccctt anactacaga 420
 ataaaacaat tttttgtctc ggtacctgca ttgctatttt gcaggcactt ctagttaaac 480
 aaaaaagaaa catttgaaaa tgatgacttg aatcgaactt ataaaatact taatttttct 540
 ctcatctcac tttatttttt aattttttgt tttttcattt tattttcttc tttc 594

<210> 3903
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 3903

agcttgcccta attaacctga agttgagaga gaatgattat taaacacaca aaatagatgt 60

atgaagtagc tatagtatat tctggacaaa gcgtacttat cgtactacac aacaaccata 120

aattgggaaa gcttgatata atttacacag gtcttatacg caaaagatgc tgcgtattta 180

ttgactaaca ctaagcatat catggtattc tctatacgcg cgctaggcga gtttgtaccg 240

ttaaccgccc agcccatttt tgtgaggatg aatctacttt cactcttgag agaagaactg 300

tttaattatc tctcctgtga ttcttttgat gctgatggcc acgatgaaaa ggaaagcaaa 360

tcttatggac ctcaggaacc atatgacact acgagattca tctttgaggt tgcgtgggaa 420

cacttca 427

<210> 3904

<211> 548

<212> DNA

<213> Glycine max

<400> 3904

tgtaatcgat tacacacata ctgtaatcga ttaccagagg agtttttcag aaaacattct 60

caacagtctc atctttttat ctgattctta aatggccatc aaaggcttat atatatgtga 120

cttgagacac aaatttgaaa agagttttca agaacaaaaa ggtcttatcc tcttaaaaag 180

caaaatagtt ttatcctctt acaaattcct tggccaatac acttgatgatt caataaggaa 240

ttatttgagt gtcaaaatg ttcaatctat ctctttcaag agagattact tcttctcttc 300

ttctttattc tgaaaaggga ttaagagacc gagggctctt tgttgatgaaa agaattctaa 360

acacaaaagga aggattgtcc ttgtgtgttt agaacttggt aaaggaattt acaagatagt 420

ggaactccca agcggattgc ttggggactg gacgtatgca caaagggtgtg gccgaaccag 480

tataaatctg agtatgcact ttctcttccc ttaaactcct ttatttatta ttgatttata 540

ttcatatt 548

<210> 3905

<211> 544

<212> DNA

<213> Glycine max

<400> 3905

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 tccagcatgt atattgatgg aatttgtgca aaaaacagcc aagagcccca tatatagttt 120
 atacatccat cctgccccat aaaacaaagt caaaatagtg aatctttaca gtaattagta 180
 ataactcctc aagtatcatt tacataaagg tacaccatca atatggaagc tcagaaatga 240
 cattatcttc aacaatcatc cttttgtcat atcgaggctg ttggacaata caattttcct 300
 ctcttggctc tggatgaggg ggtgggaaaa ggattttaat gttccttttc accaatggtc 360
 ttcactatg gctttggttt ttaagtagtg atagtgttgt tgggttgggt tgaattgttt 420
 ctgctgggat gttgcataat tttatttact tttctgtccc aggagaacct acctcctgtg 480
 gcttcttgta atacctctgg tactatgtat cttctattct ataaaaaact tcgtacccca 540
 ttgc 544

<210> 3906
 <211> 570
 <212> DNA
 <213> Glycine max

<400> 3906

tagcaagagc ctacgcatca atggagtcca tttgagtctc ttatgattca aaagatggat 60
 gccatgcttc acctccatca agagcactca actgatgttc aagtacctta aaaaacatca 120
 caactcagct ggagaaataa aaactaggct aacccttagt cacctcctta accccgatga 180
 agatgaagct tagctatggt tcagtgtttg tttctcttgt ctatattggt tgatgggttg 240
 ttatgttctg ttttgttacg tttgtctttg cttgatgaaa gttaagtgtt tttgtaagct 300
 ttatgattaa aagttgtaat gttccatgat taatgaaatg ctatgggttt atttcccttc 360
 aatttttttg tgttctgatt tttgtgtata gttcaaacat tttggccttg ttaattctaa 420
 aaggcggaga tgaactagca tatttgctcg cattgcataa gcatttgga ataacttgca 480
 ctagcattag taaaattata tagtatgata tatgatgatg atgatgataa gaaatgattt 540
 tttcttaagt gtaagaattt taggatgact 570

<210> 3907
 <211> 464
 <212> DNA
 <213> Glycine max

<400> 3907

agcttccatt gttgagtttt tgcttccctt ttcacacttc atttcactcc ccacaagtaa 60
gtgcactttc ccttggttat ttggctctcc cttgatgtgt tttagtgett tagttgctca 120
ttttttgcga aattcgtgaa gcaattcaca tgtgaatcca tgcttgtttt cgctaaatta 180
aagggttgta agggatggcc ttaagcctat gttgcattct ggagtaatgg ggcatgccac 240
attgccccca ttctcttgca cctaggtagc atggaaaata cctttcaatg gtatgtatat 300
atgcgaatat atatagcatg aaaatgcctt gcaaagtgtg tgaatatatg gcataaaaat 360
accttgcaaa gtgtgaatgt ttacaaaata aatgcatttc aaaaaaatt tgtttttttg 420
tgtgggtcgc aaaaagaccc tttaaaaaaa aatcccttt taaa 464

<210> 3908

<211> 316

<212> DNA

<213> Glycine max

<400> 3908

tcatgacgaa tcaagattga ttcagagaag ttttgatgat aacaaagggtg atgacaaaaa 60
gctctaaggt caagaacact tcttgataac aaaaatgatg atctccacaa tcaaagaatt 120
agttcaagaa gttcaagatt gaatcaagaa cacctttatg tttaaaaaga aattttatgt 180
ttagaaacca gaatcaagtt tctagattct cgaatcaaga tcaagattta agactctcga 240
ctcttgattc tcgaatcaag agaagacttt ctctcgataa gtttgaaaaa gttttttaaa 300
aactgagtac cccatg 316

<210> 3909

<211> 362

<212> DNA

<213> Glycine max

<400> 3909

agcttggttaa acgattctat gaaccatact ttgttttgga ccaaattggc aaggttgcat 60
acaaacttct attgcctgaa agatcccgca tttctcctgc tttccattgt tcttctctta 120
aacccttcca ccaatcatct gaagaagatt gtgtccact agcattgcct tccaatgatg 180
ttgaaaatca accagttatc tctcttttaa ccattctggg cactcattag gcctctgaat 240

ctactgatcc aaagctaagg tattaattca atgggcaggg ttgtctcttg atgacattac 300
 atgggaagat tgtgaaaaac tcaagactgt ctatcacctt gaggacaaag tgtttttttg 360
 at 362

<210> 3910
 <211> 536
 <212> DNA
 <213> Glycine max

<400> 3910

tgcattgattt acagaatttg tcttttatat ttaatatctt gttttatttt ataaagaaaa 60
 taattatttt tatcattggt tgatataata tgggtctctat ttataaatca agacatctag 120
 tttccttatt ttccaaaata agcaatttta gtccctatcag ttgaccatcc aaagtctaata 180
 gttgacttct atgtgacata ttgggtgctga tatggaactt atgtatgcaa atgacatgac 240
 acttatgtga aaaaaaatta aatgacgtga ataataaaaa aacatcttaa tatgaattaa 300
 acttggtgacc ctttattcat agacaatgga ataaactact aatatactca atttgtctac 360
 ctaaatatat tactattatt ctctatgtat tcaatagtca agagttatat tttttttgca 420
 gattatcaaa atctataaat taaaaatatt taatatataa atcttttttaa tcctataata 480
 tataaattta tatgtttcta ttttgaataa tttaccatct aattttttatt tttacc 536

<210> 3911
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 3911

agcttgccgc cacggagttt tccgactatg ctcttggtgtg gtggaacaag ctacaaaagg 60
 agagagcaag aaatgaagag ccaatgtgat gtgaatctta cggggcgagg atcgcttgat 120
 acaggctgta tagtttttgg atgacgccac tttcgggtgaa ggaagataag tcagggtaga 180
 cgccactttc ggtgaaagaa gatgactctg ggtttatcct acttctctgtg aaggaagata 240
 attcccgggt taccacacat ggattaccct gataaggctt gaaattgggt ctacaaagga 300
 acccataaag aaacttcttt ccaatattat gaaaacgtcc caagtttttt tttttttaaa 360
 tataaaaac 369

<210> 3912
 <211> 496
 <212> DNA
 <213> Glycine max

<400> 3912

ttgggtcctat tcaaatagcc ataacttttg acatgggggt actattgagg cccatgatat 60
 atcgagaggc tcgaaattga aaaatggaag ttctcgagaa attcaaattgg tcataacttt 120
 taacttggat gtccgattca cgcacataat atatccagac acacaaaatt gaaaaatgga 180
 attctcgata aattcaaattg ttcataactt ttgcctccaa tgtcagattt aggcgcataa 240
 tatatcgaga cgctcgaaat taaacaagaa agctctgggt caattcacac ggccataact 300
 ttgacatga gtgtatgatt gatgcccattg atatatagag acgctcgaaa ttgaataatg 360
 gaagttctcg agaaattaaa attgtcataa cttttcactc ggatgtccga ttcagacaca 420
 taatatatcg agacgcttga aacctaacaa ggaagctctg gtccattca gagggccata 480
 acttttgaca tgggtg 496

<210> 3913
 <211> 543
 <212> DNA
 <213> Glycine max

<400> 3913

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 gacttgcgaa acaaaagggtg atcaaataac aagcagagat ttaaaaggta ctaggttgcc 120
 tcctagtagc gcttctttta cgtcttgagc tggacgctg atgacttgct gatcacggac 180
 ctagtacttt gcttaccttc ggctttggac ttggtcacct attggtcgac catgtgtcgt 240
 aggcaatact ctaacctttt tgtggatgag ctgagggggt ctataggtgg cgacgggtgca 300
 tttattgcct gttgctggcc atccccaggc tgctgtgggtg tttcgccttg cacctgcctg 360
 ggggcgcagt acttcttgat gaaagctcga ttagtagggg acctgatgac cttgccgggg 420
 gtgataggca ctctgtagaa atgacagagg cccgtaatca gagctggaaa cccagggacc 480
 ctgttggact tctttgggtc cactgggtgt cctatgtcac gatggcatga tcttgctggg 540
 ggg 543

<210> 3914
 <211> 555
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3914

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 aaaaactaag cctaatagtg actcatgaac caaagctaga agatgaatac accaagggtat 120
 cagtcttgca agcggaaaaa gaagcaaggg aaaagggtgat caattcattg cacaaaaaag 180
 caatgatgtg gatggacaag ttcgccttta ctttgaatgg gaatcaagag cttccccaac 240
 tgctaaccaa agccaaggca atggtagatg tgtactcggc tcccaggaggaa gttcacgggc 300
 tccttaatta ttgccaacac atgattgatt tgatggccca cataattaag aaccgctaag 360
 gcaattgtat ggttgctttg attttgatta aataaacctt ttttgttccc taataaaatg 420
 aggttgattt aatcctatgt gtttaaaact ctgtgtgaat ccaatacttc gacaacttat 480
 ctttagcatg cattncatgt ttgtttttat cgcattactc accgcatttt gttcctctag 540
 gaagtacacc ataac 555

<210> 3915
 <211> 592
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3915

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 cttgtttctt ctttgacaaa catacatact tgctcaaact tatgaaaaga aacacaaaact 120
 ccatcacaat catgcattcc atccaaaatc aattcataac accaattttc acaaaaagat 180
 aaaaatgttt tactacataa tcatccaagt caagttaaac tattccatat gtttcaaac 240
 aagcactacta gctatccaca aacaaaaaca acagtgtata taaacattaa ccaaaataac 300
 taagacactg aactgaaata taataattat ataaaaaaat atccaaaaag caaaatcctc 360
 aggaatttaa aatccctgag ataggctctg tgtatcctat gtctgagcat cctcctcatc 420
 tgtaagtaa agtactggag tagttggagg agagggtgttc agtgtcagga ctggtgtggt 480

ctggctctct agtatgtcaa gtacaagagt ggaagggtca nctgtaggct gtggtgagga 540
gaagtctgct actggagtag gaggctctga tgtgccctca agtgaatctt tt 592

<210> 3916
<211> 827
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3916

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ggctcaaccc caacaccaca aagtcagcca aaaagttgga aaaacatatg tgcaacagca 120
acacccttga cgacacaaac ggtggcacca accatgggaa ggtggtgtac aaggccctta 180
acgcccactg gngtgcaagg gctttgcaat ccgggagaat tgccctggtg aagggtttac 240
cctggccaat gaacaaattt gtggaaaggg gcccggtgaa acccccttgg ttttgcaaaa 300
cttaccaaaa aaaattgttc cagccccacc ccaaataagg ggaatattat ttttatttga 360
aatatcccc caataattgg cctctagaaa acaccccccc attccacact gggggaaaga 420
gaatctaatt atataaaaca caaaaaaggg gaggggaacc ccctttacaa agggaaaaaa 480
aagagagggg ggaatttttg ggtttctcat aaaaaccccc ttcttctttt ttttttgaaa 540
caaaaagtgg caacaagggt gggccttttt ttccctcgga gacaagcccc ctttttttgt 600
tattattgac cccaccccc cctcttttcg cgcgttttgt ggtgcctctt ccctccacaa 660
tattttttcc caaccaaagg gccaaaaaaa aaaaactaaa gacgcccgga gagaaattct 720
cttttttttt caaccacaa taaatccact tctatcaatc tgttgtttcc tctccacttt 780
ttctccgttc gcttcttctt ttatacacat actaaataaa acaaaaa 827

<210> 3917
<211> 629
<212> DNA
<213> Glycine max

<400> 3917

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attcataaac agtgtaaagt cttttggcta agtgactatt tcaatcaatc atggcctaca 120
tcatttccaa aattcatgca ttcatcagat attcagagat ttatgcaaaa atcaataccc 180

aatgctagtc attctctcac aattaaggat cacaccactc accggattgt ggctaattgat 240
 taccttcaca atttacctgt caaaccaact aacattttta gtcatgctcc taattcatgt 300
 tctttatctt ctaattaccg catactcatt caaagcatat gatctaataca ttgcaattca 360
 ctcaattcat gtaattgatc aatccaattt cattcacaaa cacacaattt ccaaatacaa 420
 caaaccactg cataaatcag actgtaaagt gttcaacaag cttcaaaatt tgctaactaa 480
 ataaactgaa tataaaaaatg aaattaaaag cataaaaataa tcataaaaat gtattaaaat 540
 caggaaaagt gcataaaaat cctgtcaaag ctctccctgt gttgcagtaa gctcatcctg 600
 gagtgaagag ggagtatctt gggttggat 629

<210> 3918
 <211> 576
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3918

tgaagganaa cttgatgcct tgggtccact agtaactcag cttgccatga ataaaaaatc 60
 tacacctgtt gcaagagtct ggggtctatg ttcttctgca gatcaccata cagatctctg 120
 tccttctttt gcagcaatct ggagtcaatg agcaacatga agcttatgct gcaaacaattt 180
 ataatagacc tcctcagcag caaaaccaac aatagcagaa taattatgac ctttcaagca 240
 atagatacaa tccagggttg aggaatcctc caaatttgag atggacaagt cctccacaac 300
 aacaacagtc tgttcctcct ttccaagatg ctgctgggtc aagcaagcca tatgttcctc 360
 ctccaatata gcagcagtca caataaagac aacaagagac tgagggtcct cctcaacctt 420
 acttagaaga gttaatgagg caaatgacca tccagaatat gcaaattcag caagagacaa 480
 gagcctccat ttagagtctg acatatcata tggggcagat ggctactcag atgaaccaag 540
 ctcagtccca aaattctgac aaattgtctt cacaaa 576

<210> 3919
 <211> 393
 <212> DNA
 <213> Glycine max
 <400> 3919

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 ataggttgga cctcccaaga gagtatggag tcagcaccac ttttaatat tctgatttaa 120
 ttccttttgc aggtggagct gatatagagg aggaggaacc aacaaatttg aggtcaaadc 180
 ctcttcaagg gggaggggat gatgcaatcc tccctaggaa agggccagtt accagagcca 240
 tgagccaaag gctccaaaag attgggctac agttgataaa gaaagcctta cggtttttaa 300
 tgaactttag ggaaaatttt tgacccttg gcccaaggtg ggttcaactt ttttttgaaa 360
 atatagaata agttggtttc tttttttggg ccc 393

<210> 3920
 <211> 631
 <212> DNA
 <213> Glycine max

<400> 3920

ttgcttctac acttatcaat ctcccaagat tgtgacattg ttctttccac cttcttctct 60
 aattccgcct tttccttttt attttcccca atttggtgat gctaaaaatt ggatccacaa 120
 atcaagatac aaaggcttct ttgaatcagt ttgcaatgta tcatacatag gggcatgtgt 180
 ttgttgaaaa gactcttgtc caagatcaca aatcatatcc tctaagcaat ctcccatttc 240
 tacatcaaat gggtcagatt gggaccgcct ctgcatgttt gtcaatttac cattctatat 300
 ccatgttgta taattcttct taatcttata acacaacatg ccttcgtatg tcgtcgagta 360
 tttgctgtct cccattcaaa taatttatac aaggacaaaa caattttttg tccccatccg 420
 attgacttct ttgagaagca aattgcaaga actgttccac accttctca tacacagggc 480
 tcatgggact tttattcatc caactttgat ccatctaaat aataactccg tgatactaac 540
 aaagttattc aatgcataaa aaatctactt ttttattaaa ggtgtggggc tattccattc 600
 aaaagacatt tttaatggta aatcatatgt c 631

<210> 3921
 <211> 324
 <212> DNA
 <213> Glycine max

<400> 3921

agctctagag gctgatttgc gcatacatat tttgtctgct acgtgacttc ccacaaagag 60

tttcaactat gtgtcgctaa acatttactg atcttttctc ttacatgtaa ttaacacgac 60
 ctaagttgcc tggtaagatc tctaccttat cgactaggac taaacgccta atgacttgga 120
 tatctctaac gcaacccttt atttacctta gatttatgac taggaccctt ataggacaac 180
 cctga 185

<210> 3924
 <211> 501
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 3924

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 aaaagctaag cctagtttga atatgagcag agctagacga tgaatacacc aacgtatcaa 120
 ctcttgcgag cgggaaagga agaaatggaa taggtgatca attcattgct cacagaaaca 180
 atgatgtgga tggacaggtt cccctttact ttgaatggga gtcaataact tccccaaactg 240
 ctagccaaag ccaatgcaat ggtagatgtg tactcggctc ccgaggaagt tcacgggctc 300
 cttaattatt gccaacacat gattgatttg atggcccaca taattaagaa ccgctaattgc 360
 aattgtatgg ttgctttgaa ttgattaaa taaacccttt ttgttccta taaaatgagg 420
 ttgatttaat cctatgtgtt taaaactctg tgtgaatcca atacttcgac aacttatctt 480
 tagcatgcat tcatgttttg t 501

<210> 3925
 <211> 194
 <212> DNA
 <213> Glycine max
 <400> 3925

agcttccggtt gttgtatttc gagcgtctag atgagttagg acagcgagtc ggacatcctg 60
 tgaaaagttg tgaccattct aagctctcga gcgcttccga tgaacaatgg ccagcgtcat 120
 gatcataaat gatgctgaaa cagacatccg agagatatgt gctgaccatt ctaccctgtg 180
 cagagctttc gctg 194

<210> 3926

<211> 389
 <212> DNA
 <213> Glycine max

<400> 3926

tgaccaggaa ttatttgtat gggtcgaatg ttgaattccg gttgttcctg gcgcggagat 60
 gatggtacag cgggtgaacc ataatcgga gattcttttg gtgaagtagc catggaaaag 120
 cagagcgttt ggaatgattt cgtaaatttc agaaggctat tgggaaatgc tggataaac 180
 acgaatgcca agcagatata aatttgaatg aggaatgtac agggtcgtgt gaagcaacgg 240
 tcaaattttc ctgggttcat tagagaacgc gctataaatg ttaagagatc cgttgggggca 300
 ctttcacatt gctggagggtg ctataatccc tctagcacac aaatgcccac cttgcccctc 360
 agtttttcaa actgatgcgc ctccaaagc 389

<210> 3927
 <211> 804
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3927

tacaaccaga agtcactcta tgctaaattt ttgaaagaa tattgcccac catagaagaa 60
 accaagggtcc attcagaatt ggccatgtgg gtctccacaa ggaatccaag aagaagggaac 120
 aaccttttta ctttaacccc ggtttgggtg gtatatattg cttttctcgg gtggtattgg 180
 ccctttccgg tctgtgttaa tgctttcacc tacatttcag aggtgcatga agggcaattt 240
 ttttctaata ttggggggaga aaatggaatt cgaaagtatt tcatgggatg atttcctttg 300
 tttttgggtc atcttttgga tgccttgcca atcaaatttg aaaaaagtat tgtagaaaat 360
 gtgaaaagtc taatttggtg cttaactggg aganatgtca cttcatgggt caagaaggca 420
 tagtgctggg gcataaaatt cagtgagggg aattgatgtg ggacaaggga gaagattgat 480
 gtttattgag aaaacttccc cctccaatga aatgtcaagg cgagtgagaa agtttttttag 540
 gacacggctg gttcttacag acgtttaata aagattttctt aaaagtagcc aaaccactca 600
 gtaatatgtt gaacaaaaaa tggtgctttt gtggttaatg aaaaaagtgt ggaagcattt 660
 aatgatctta aagccaaact agtatctgct ccgggggatt acaccacaaa attggggggc 720
 aaaatttgaa ttgatgggtg aagccaacca atattttgga agtggtgccc ctcggtataa 780

gaaaaggcaa aatTTTTTtat gctc

804

<210> 3928
<211> 610
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3928

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cctcaatttc attgtctccg tgttgaatgc attgctctct ctacagacat tatttcccaa 120
atctcaacgg tgagaatgtg aggaaatgag ttctaaaggt ggtatccaaa tttcatgatg 180
atccaatggt taaaagggtt gggatcatat ttttactgag atagatttga gtgtatgcgg 240
gaaagaaaag aagggttttg gagaggaaaa aaggaaaacg aatttgagag gaaaaaagag 300
catagagacg tatcgtaaatt attaaaattg acctaatatg tctctattta tagctggact 360
actctcagcc tattattttac tttatttttc tttattttat tattttataa aaagaaactc 420
tattttactc tctcattgaa taaataacca attaanatat ctttatattt tctaaaacat 480
cattttactc tatttgcttt ctaatgctat gaaaccatta ttttaattaa aaaaaaccct 540
tttccctcaa ttatngtaat tctaaaaact ctataaattt tagataaatc tctatttatt 600
ttacgaaaaa 610

<210> 3929
<211> 643
<212> DNA
<213> Glycine max

<400> 3929

agcttggaga ggatgcttca atggaggaaa agaaagaggg agagaaagag agagggggga 60
gcacgaaatt gaaggaataa aagaggtaga gaagtgaac tttgaagtat gtctcacaag 120
agtctcattc atcaatgtta ccacaagtgt tacacatgct tctatttata gactaggtag 180
cttccttgag aagctttctt gagaaaactt ccttgagaag cttctttgag aaaacttcct 240
ggagaagcta gagcttagct acatacacc ctctaataac taagctcacc tccttgagaa 300
gattcctaaa gaagctagag cttagctaca cacacctctc taatagctaa gctcacctcc 360

ttgagatgag aagctagagc ttagctacac accccctata atagctaagc tcacccccat 420
 tccaaaaata catgaaaata caaaaaaaaa agtccctact acaaagacta ctcaaaatgc 480
 cctgaaatac aaggctaaaa ccctatacta ctagaatggc caaaattcaa tgcccaaaag 540
 aaggaaaaac ctattctaatt atttaciaag aagagtggat ccaaccttga cccatgggtc 600
 caaaaatcta ccctaagttc atgagaaccc ctaggcgttc ttt 643

<210> 3930
 <211> 559
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3930

tgtagcaggg ttattattat ggtaaatagt tggactacat tgtgagatac attgcaagtt 60
 gtctataaca atagtttttg taagtataat ataattataa tgtgatgata tgaagaataa 120
 taataatcta taaatgaatt gcaaattaca aattacaaat ctgtattaag tatcaccatt 180
 aatagctgaa tgttgtcttt ttgttcttg caaaatagtt ttctacgct tccttcgttc 240
 aacatatatg tccatgagta attgatttct gcaacaactg ccttataatt gccaaacaat 300
 aggaaaatca aatgttgaaa ttgagttaa taagttgctg tagtaggctg actttaaaat 360
 gataccaaca ttatagttat ttgcatttgc ttcaccgagt aaagggatat gtatttgcaa 420
 tagaaaaagc ataatagaat aaaacaatag aaaaatttgt attcagacgc attaaatntc 480
 atactcaatg gtttagtgca gcacgaatga attgctgctc taaaatgtta ggtttgcaat 540
 catctgtcat gtgaatatt 559

<210> 3931
 <211> 470
 <212> DNA
 <213> Glycine max

<400> 3931

agcttcaaag gcttagacaa gggagtataa gtgttgaaga atatagaaaa caaatggaac 60
 tactcctttt aagagctgga cttagggagg aggaaagaac aagcatagct aggttcctta 120
 gtgggcttaa tatggaagtg agggacaagg ttgaactcct tccatatatg gacctagatg 180
 agctagtcca actttgtata agagtggagc tacaacttaa aagaaagtct tctttaaaat 240

cttaaggctt tcaactcttat ccaaggaagg accaagccca aggaattttg gaggctgcac 300
 cttgaaaacc caaggaagat aagggttaaga ccatagagaa atccaccctt aagactagtt 360
 cccaagaaag gactagcaac ataaaatggt tcaaagtctt tggcagaggt cacattgcct 420
 cttaatgccc cacaaagaaa accttgatta tgaggggtga agacatttat 470

<210> 3932
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3932

tgtggtgcaa aagattacat ctatacaaag gaatttttga tggggcagcc tccaagactc 60
 cattaagatt ccttgggtga ggtgggacat agtctgccta cctaagagta aaggtggggtt 120
 agggatcaaa gatttgatta aattcaacga ggctttgctt gctaaatggg ggtgggagtt 180
 ggcaaataat cagaatcagt tgtgggccac aattctattg tgtaaataatg gtggttgag 240
 ggatttgatt tctcatagga actgcagttt agactctctt tgggtgaaag acctcaaggt 300
 tatcttcaag cagcagcaaa gcaacacaat ttgtaaaaat agctttattt aggccatang 360
 taaggacggt ccatggaata caaaccaagt acttattggc ttgacaacaa aaaaaacact 420
 cat 423

<210> 3933
 <211> 113
 <212> DNA
 <213> Glycine max

<400> 3933

ccaaatcctt cagtaggggc tcctaaaacc tcctttagtt ttttttgggt ttccctctctc 60
 ttcaatggtg gttcctcatt tttttccccc tgggccctcc tcaattgcct ggg 113

<210> 3934
 <211> 584
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3934

tagctctctc	ttagtctctc	cacagctaac	aactctcaaa	aaactccatt	ctctcagaaa	60
tcgatgatgtc	gacttaaata	ggcaatcctg	tcggtggacg	cgcgcttagc	ggaagatgag	120
ctcgcttagt	gccagtcaca	ctcgctcagc	ctaaagatga	agacgatgcg	cttagcgagt	180
tggatttcgc	tcagtgcctc	tatacagctc	atccttcttc	cagaattgtg	cccgctgctta	240
gccatcatat	gatgcgctca	acgggcgaca	cacttagcta	gatgatgagt	ggcttaacaa	300
gttcatgaaa	tctgcacttc	accaatcttg	cctattttac	ctgaaattga	agtggaaaga	360
tcattaaata	cacagaactg	ggatacgaag	tacctattac	ctaaattatc	aaaaagtgat	420
taccatacta	ccataaacia	ctatacatgg	gaggagtgtg	atacaattta	caacagtggt	480
ntacacaaaa	gctagtcgta	ttgactgact	aacatgccac	tatatctacc	ctatgtcaag	540
ataaggtcat	catattctat	aggatatggg	tgattttatc	aaca		584

<210>	3935
<211>	581
<212>	DNA
<213>	Glycine max
<400>	3935

agcttgagg	aagaaggaga	tgaatgaagg	gagagggaga	gaagaacacg	aaattttgtg	60
ctctaagaga	gctctgaaat	ttgaagttta	attttcaa	atgatcaaagtt	taaaaaatgc	120
acacacatga	cctttattta	tagcctaagt	gtcacacaaa	attggaggga	aatttgaatt	180
tatattcaaa	tttcacttga	atttgtggag	ccaaaatttc	actaattatg	attaatgaat	240
ttttgctatg	ggtcagccca	ctaataccaag	atcaagtcca	agattaagtg	tgcttaggtg	300
tcatacagaca	tgtaaagcaa	gaaggacatg	cacaaagtgt	gactatatga	tgtggcaatg	360
gagtgtagca	agcaaagtct	cacctccctt	tctaaaattt	aattggattg	ggcttctccc	420
aattctatta	aattttatttc	tcaacacaca	catcaaatat	tcacttaatg	catgtgaaat	480
tacaaaagta	cccctaatac	aaaaactagt	ctaggtgtcc	taaaatacaa	cggttgaaaa	540
atcctacttt	tctagggtag	ccttccttca	ttatggatcc	c		581

<210>	3936
<211>	527
<212>	DNA
<213>	Glycine max

<223> unsure at all n locations
 <400> 3936

ttgcagattc tcaaaaatga aattttcaag gacgagaaac atttgaagga tttttcaatt 60
 gacatattaa gtcaaatgac tcctattctc gataactcac ttttctctca aaaggaacaa 120
 actttcagaa atgataaaat gaggccacat gaatgtctgt atatattttt tatttgaaac 180
 atagtcaatc aaatgctttt tctttttttg tttcgaactt tactcgtcac tttacgacac 240
 cttgaccaa catgcataac gagtaatttc tgattgaaca gtcttggaag tcaaacctca 300
 ngagcgcagg tcgcttgagc aaacaaacca acaacttaca ttcacattcc agtggaagtc 360
 aaataagcaa agatgtaatt atgagaggat gagagaaagg gatgtcaaat ttatccatat 420
 tattagcatt gtaattgtgg tttacaataa tggcataaac ttaaaaaatc taacaagtca 480
 ttagagacat ctaacaacaa ccttcaaatt gccccatgta tagtgct 527

<210> 3937
 <211> 831
 <212> DNA
 <213> Glycine max

<400> 3937

ggagatttgt agcatcgtgt cgccccatgt ttcatagaat ctgcctgcat gcatgctttc 60
 ttgtgaagac ataccttgcg agaagaattt ttttattgga gagagagacg cagttaccca 120
 tgagtgtgag gtataaaaga tgacatggaa ccaaagata ggctgttttg tttagtgagg 180
 gagtattctg atgcgttgag gaggggtgag acttatacac agattccaat agagagcttg 240
 tgatgttcaa cctatgggtc tgtcctaagc tttttagttg attcggacat ggtataagtt 300
 gtgatggatg caggttagct ttttaaagc tttacaaagg tgttcacata gcatcccatc 360
 ttagcatatg agtattgttt ttaatgagc atggttagct aatatctgtt cctattgcta 420
 tgaagcacta tttttgttt ttttctata tagcgataaa aattattttc tttttcaaat 480
 gtttttttaa ttattaatgc ttcttgattt agggaaacctt gtaatttatg ggaaaacctg 540
 ttcgccgtga aagtctaact tcacagatta tcctactaga atgaatgacc gctttttaaa 600
 ctcattttct tgtgttatat ttaatgttgt ccacctcaac catatttcta atttggtgat 660
 tgtttatcta tctgtcata catatttcta tgtatcttgc gttcttattt tcataacgct 720

ctcgcctatcc tttttttggg atcctactca ctctatcttc gactatatgc cttttgataa 780
aatgtttcct ttattatact cacctatttc tataccctta tcaccgtact t 831

<210> 3938
<211> 294
<212> DNA
<213> Glycine max

<400> 3938

tttgatactg acttaggcaa ctctcaggc agagaaaatt ttttatggcg cgaagcatac 60
aaaaccctag gcttgaatga ctacgcttga gggatccatc tggcacttta tccaagcgac 120
tacaagctac ccacacactc acaatgcgca caatttaatt ctccagcgga gttccacaaa 180
atcatgcgca aatgccatag aggcattctca ccgaacactt ggtgggggca tgtttaatcc 240
ggatcatcaa gccgaagggt gcaaccagac ttgccacatg ctcataaatc tccc 294

<210> 3939
<211> 146
<212> DNA
<213> Glycine max

<400> 3939

acatttgcta ttgatttgct ttaacctagc cagtgggtcaa acatgtttgc ttatgttaag 60
cggettattcc ttgcgtgttg acttcgtgct aatgggttaaa tgtagcttcc ctacacatac 120
atccgaattt ttttctaaac atattt 146

<210> 3940
<211> 534
<212> DNA
<213> Glycine max

<400> 3940

tgtgggtatg tgttcatcac tacaagattt ccacatttgg gtttctttcc gaatgaaaaa 60
aatggtcgct ttacactaaa tttgtttgct ttcacttctt accaatctga tgcattcttg 120
gatttttttt ttttttttgc tatttcaagt ttgcttctcc taatgtgtat gagtgggttc 180
agaattcacg gtaaaggaat gtgtaatagg tttttatgaa gaaaattttt tttttttttg 240
ggtaataagt cagagatgct tttcaagctt ttgctacatt gctcgatcag attttgttct 300

gggtaagtta atcttttcat ttttctaagt attattatat atttggatat tacaatctta 360
 ctgactttta catggggaag tcttcctttt ctgttggtta gttccaacaa catacgtgtt 420
 ccttccatac tgcaattttt atgacttccc tatcattaca taaatattga ttgcgcaaga 480
 aatatttgct gccctatttt ccttttccat ttatttgtac attgaaataa aata 534

<210> 3941
 <211> 220
 <212> DNA
 <213> Glycine max

<400> 3941

atatccccac cccacacccat gtttatcatg tttttaatta tatgagcttg aatctagttt 60
 aacgatgctt gcctttatac cttgaatatg tgtgaaatat tactcatatt catgggtgca 120
 tacatttggtg cttgcacatc aagtatacgg ttgtattata atgaatatat taagcttgag 180
 atatcattat tttttatatt gatcaacca atgagatgca 220

<210> 3942
 <211> 506
 <212> DNA
 <213> Glycine max

<400> 3942

attcaatggt tcagatgcag ctgcataagt ggagtctcat cctgatgatg ctctgttata 60
 tatgetgacc catcctaaat aatttgctgt ggtaagtgga tgctactctt atgaacttgt 120
 gttccccctt taatataagg aaaatgcact tttcatgac attacatgtg ctgatttttc 180
 aggttgatct tgatccttat ggctcacctt cagggtttct ggatacatca gatcactcta 240
 ctgctgatgg aggtatgctg atgtgtactg caacaaacat ggctgtgctc tgtgggggaa 300
 atggggagggt ctgctattca aagtaatgtg catactctta ttcacaatca actttcattt 360
 tgtttgattg gtggactgaa cttttaacaa ctgctattca tactacatat ggatcatacc 420
 cattgagagg gaaatcttgc ctttcaaag gctttgagga acaagccggc ctgcattgac 480
 gtatggtata taacgcagaa actctt 506

<210> 3943
 <211> 572
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3943

agcttgtaat cgattacaca aatcttgtaa tcgattacca gaggagaatt tcagaaaata 60
atttccaaga gtcacatctg ttcaaagat tttttaatgg ccatcaaag tctatttata 120
tgtgacttgg aacacgaatt tgcttagagt tttttagaac aaaaaggctt tctccttca 180
aaagaaaaat catcttatcc acttaaaaaat tccttggcca atacacttgc aattcaataa 240
ggaattattt tagtgctcaa ttgttcaatc tatctctttc aagagagatt tctttttctc 300
ttcatcttat ttctgaaaag ggattaagag accgagggtc tcttgttgta tagcaatcta 360
aacacaaaag agggtttgtc cttgtgtggt ttaaaacttg taaagggtt ttgcaagata 420
gtggaactct caagcgggtt gcttggggac tggacctang cacaagggtg tggccaaact 480
tgtataaatc tgaatttgca atttttttcc cttgaaccct tttattgggt aatgcttatt 540
gcttctattc agaaagttaa aattcgcata at 572

<210> 3944

<211> 512

<212> DNA

<213> Glycine max

<400> 3944

tacctgtgc caattcagtt cccaaggcta acaacaatct cattactatt aagtctgcga 60
cgtcttgtaa taacaaagtc attgacattt ggcatttcca tttgggtcat cttcatatg 120
ataggatgca attgttctaa caaacttatc ctatgttgac ttgtgataaa acctttgttt 180
gcgatacttg ccctagagcg taacagagaa aactttcatt tcccaatagt gactcataag 240
cttctagtcc tttcaatttt atacatgtag atatttgggg tccttgtgcc acaactgctt 300
tgaatggaca taagtatttt cttacaatta tggatgatca tactaaaatg gattggattt 360
ttataatgac ttcaaaagtt gagactcaaa ctcatattaca agcctttgtt gcctatgttg 420
agaggcaatt taatacaaaa atgaaagcta ttcgatcaga taatgggtgct aagtttatca 480
tgaaacacgt ttatcataat actggtatca ta 512

<210> 3945

<211> 521

<212> DNA
<213> Glycine max

<400> 3945

agcttttata tgtgtgcaag taataaaagt tcttctagt tagccgtgga tntaggtaca 60
tacattgtat gttgaaccac gttaaacttt gtgtcttttc tctcttcctt ttatttcttt 120
ctcttctttt attgctctat actaactg taatcttaat gcaattcggt taggctaagt 180
tcgacgagga atcctagaat gaagtttaaa tataattagt ccattcaagc gaggaatcgg 240
tgtttggggt atttgctctc agcatagaac acagaaacaa ctttaaatag agaaaaacac 300
ataattacat caagttgttc agtagaacga cccaacgttt taatcatttg tttatctctc 360
actattagat agcaattttg tagttatttt tagaattaaa aaaattatct tttgttatat 420
tttctgggtc catacaaatg gctgcttatt gaacgaacac ttttcttaat gaaacaaact 480
ccctgtgatt cgatactcga ttcttatcat tttatattac t 521

<210> 3946
<211> 595
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3946

tatataattt tttattttaag aaaatattag actatttttg ttttcattaa aaaagataat 60
ttgaatccac cactgagcgg gaccctttca atttgtataa ttgattaatt gttttagag 120
aaaaaaaaac aataatgata aaaatatatc gtttaatgta ttcgatgcag cttgcttctg 180
tacttcgtgg tgatctgtat tttgtccaga gatgatccat tatatcataa tctatatttg 240
tttttaagat acttggtttt ttatttattt gatatcagtg taattatcac attaagctta 300
gtacctaaaa tagtctaca agttttaatt ttttagacct attataaaat taatctttaa 360
tcaaaactta atgacattta aagtttatta ctcttctca ataatatatt ctgtaaagaa 420
ttaaattcag attttttttt actatatgca ttatcaatta aattacattc attaaataac 480
acggtatttg ttttaatgcg gcccanatag aataagtgat cgagtggaaa tagaaaaaca 540
aaagcattga tttttagtca cttttactga gaaaacgttt tgaaacagtt gtcac 595

<210> 3947

<211> 536
 <212> DNA
 <213> Glycine max

<400> 3947

agcttgagaa aagaaaaaaa cagagatgaa cgatagagag agagagagag agagagagac 60
 ctatgagtga gaggaagaaa agattgtaat ggacagaaag aaaaacatat ttttcgatgg 120
 aggtggtagc tcgtcacgctc aagggtgtgtt gagagggaga gagagataca gagagtgagc 180
 attgtgaggt acaatgtttt gtacagagtg aggaatttta attcctttgt ttttgctaag 240
 aatttgaaat tctgtcaagt tagtatatta aaatgcttta caaaaatgat aacatagcat 300
 ccaaacatag cataagagta ttgcttctaa tgtgaagttg tcaactaaga tctctccata 360
 agctaagaag gcaatattac ttgtaagcta cacatatagt gatagagata aatcactttc 420
 aagtagattt ttttaattcta atgctattga ataggggacg atgaaaaaag ggaaaattgt 480
 tgcaggaaaa aatttaattt caagaaaatt ccacaagata gatgacggat ttgaaa 536

<210> 3948
 <211> 560
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3948

ttgaattcta gtataaaaaa ctctcaaac atattataat actcatgcat cttttacatt 60
 caaaaccaga aacttgatt cctaggcatg agtcatectt ttggcacttt agtctagctt 120
 ctacaaacta cccacacact cacaatgcgc acaatttatt tcgcaagcta agttccacaa 180
 aatcatgcgc aaatgccatt gaggcatttc accgaacact tgggtgggcgc atgtttaagc 240
 atgaaaatca agggaatggg ggcaatgtgg catgccccat tatctcagaa cgcaccctag 300
 gcctaaggcc atcccctaca acccctcaat tcaacaaaaa caagcaataa ttcaaggata 360
 aatccctcac gttttgagca aatacatgca acttagagca ccaaaatata tcaatggaaa 420
 gccaaagagc ccaagaatga ggtacttact ttntggagat gaataataga gcaaaatgga 480
 atcaaaaacg tgaaaaatga tgacctatgg gctgcaaaat tgggtgattcc cgtagccttc 540
 tttttgaatg aagggggggg 560

<210> 3949
 <211> 603
 <212> DNA
 <213> Glycine max

<400> 3949

agctttgggg gcatatgtac ttttaagttag agataatata taaaaaaatt ggaataataa 60
 ttaatattac gagtaaataa catatacaaa gatgattaat ttttacataa tcaatcacat 120
 attatcatat aatgtaaatt gattgatagt aataataaaa atataaaatt catattaatt 180
 atgatttaag ttctaaacat tatagatgat atgataaaaa aaatgtgtat aaaaatgaga 240
 aattaagcaa taatgagaga aaataaaatt gaataatgaa agagagaaaag agtgtgaccg 300
 tcacagcttc caatagattg gtgttgctcg gcaagtactt gaggacccat gttagaacac 360
 ttgctgtggt gtcattgtgca gcaaagatga caccaatgag attatcaaca acttgagaat 420
 ctgtgtgctg ctgatagtac atcttgttct tctcacctcg agcttgcaat agaactccca 480
 atagcccccc accataattt aacagattat agactcttat aattacattt caacagaaaa 540
 acccaagtca gtgtgaccat caacaaatgt tacatattat atataaccag tgctggataa 600
 aaa 603

<210> 3950
 <211> 624
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3950

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 taaactgcat gtccaaatcc agtaactagc tagctagtat atatggaatg caatattaat 120
 aattaacttg tattgaagca actaattaaa ctccttacca ataatagaaga gagcagcttt 180
 ccaagaacca gttgaagctc tgagtggaac cctgcctttg tgggccactg aagaatcaag 240
 aaccatttc acctcatcac cctcttctgg ttccacttca agactaacct tcttctccat 300
 cttgcagtgt tgcttcagta ttgctacttt aattctactg caagtagaga agactaaccc 360
 ttctagcctt gcttcttgct agtgtctatc tatttacacg caccaacctt taacctcang 420
 acctctcttt atagaggagg atttgctntc tttctttatt tctttttttg aaaacttatt 480

tttgaaatct tgcacataga taaacattga acataatatc agaaatggat gcagtgagat 360
 agaccagtga gttgcatcca ctttttttga tccttgcca atccaaggta tgtcatgggtg 420
 tgcattggag tcttcatttc ttttcacgc ccatgttgaa tttcttcagc aattctttca 480
 cataactagt ttgatgaatg tagatgcatt tggctttttg gtttatttgt aatccaagaa 540
 agaatntcat ctctcccatc atgctcattt caattttgtc tgcataagca tagaaaaatc 600
 ttcatt 605

<210> 3955
 <211> 529
 <212> DNA
 <213> Glycine max

<400> 3955
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 attcctaatt ttcaacttac ctatttggat gtgacatcat ggcagatagg tccaacttt 120
 ccgtcgtgga ttcagtcaca aaacaaactt caatatgttg gactgtctaa cacggggatt 180
 ttagatttta tccccacttg gttctgggaa gcacattctc aggttttcta tttaaacctc 240
 tctcataatc atatccgtgg tgagcttggt actacaataa aaaatccaat atctatccaa 300
 actgttgatc taagcacaaa tcatttatgt ggtaaattac cctatctttc aaatgctgtg 360
 tatagggttag acctttcaac caattcattc tctggatcca tgcaagattt tttatgtaac 420
 aatcaggaca aaccaatgca attagaaatt ctcaatcttg catcaaataa tctatcacga 480
 gaaataacctg attgttggat gaattggcca tttctagtgg aagtgaatt 529

<210> 3956
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 3956
 tcctcatcga agagattatt ataattgtta tcatagtgtt aatcatagtc atactcgaaa 60
 gcaaaaagtg aagtgtggaa gtgaagctga agaagatggg aagtgcggtt gtggcagagg 120
 actccatacc agtggcaaca gttgggtatga ttatgattcc aagaccaaag cctattggaa 180
 ggatctatga gattattctt aaacttcaaa agtgtctcac gctcacttgg gatgcacaca 240

ctctctctgc atggtaagct caacaaccaa aggtggagaa agacaagaat ataaatggag 300
gaattcatga tcacacaaga atatatagaa aacaagtgtg gttggtgggt ctgcatataa 360
atcatcaaac ttctattatt tatactgctg cctgcctgt ttttttttct tcactttcat 420
tattttttac cttttttat 439

<210> 3957
<211> 509
<212> DNA
<213> Glycine max

<400> 3957

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cctcacatgt cttgttctaa atgttggtta catgattctt tagagtgtgc accgattaaa 180
cttgctatag aagtttagatt tgattttcta tgggtcaaata ttcttggtct tgatcttgaa 240
ccatgaattg tgttgagttt aggttccttt gagttttgtc ttgttatttt ttgtggctga 300
aacctaaacc ataaaattct tacaaaaata ttaaagtaga agaaaacctc aaaaatctac 360
agtgacttgt tcacctattg tagttttgtc atagaagtca tgtctagtca tgaaacttgt 420
cacataagat ttcttatgtt gcgctgaatt atattttcct gactctttga ctaactcaat 480
tggtcatgag tgtatgaaat tcttttagc 509

<210> 3958
<211> 474
<212> DNA
<213> Glycine max

<400> 3958

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taagggtagc atttcttggt aaaactaact ttccaaatgt ttgccttcat aggaatggcc 120
ccgacgaagc ttgcctcaaa gaggtccagg aaggacaagg cggccaaagg gactagctcc 180
gctcctgagt atgagagtca ccgcttttag agcgctgtac accagctgcg cttcaagcca 240
tcaagggatg gtcgtttctc cgggagcgac gcgtccagct caaggacgac gagtatactg 300
atttccagga ggaaataagg cgccggcggt ggacatcact ggttactccc atggccaagt 360

tcgatccaca aatagtcctt gaattttatg ccaatgcttg gccaacagag gagggcgtgc 420
gtgacatgag atcctgcgta aggcgtcagt ggatcccgtt tgatgccgac gcta 474

<210> 3959
<211> 548
<212> DNA
<213> Glycine max

<400> 3959

agcttgtaga actccccaaa agaaaatcag ctattggagc taagtgggtg ttcagaaaca 60
agttggacga aataggtaaa gttgtgagga acaaggctag gcttgtagcc aaaggaaact 120
cacatcagga aggtataaat tatactgaga cctttgcttt tgttgctcgt ttagaggcaa 180
tacggattct actatccttt gtttccatt atggatgat gttgtatcaa atggacgtat 240
aaagcgcatt cctcaatgct attattaagg aagaattcta tgtggaacaa cccctgggt 300
tttagagtgc tatttaccct catcatgttt tcaaacttaa taaagctttg tatggtttaa 360
agcaagctca ttgagcttgg tatgaaaagt taagttcctt cttactgaa aatggtttta 420
taaaacggaa cgtaaacact atttttttt gcaaagatta tataaatcca ttcctaattg 480
tccagatata tgacgatgat atattattta ctgcttctaa tgactttttg tgtgaggact 540
ctttcaaa 548

<210> 3960
<211> 653
<212> DNA
<213> Glycine max

<400> 3960

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ccctggcggg agactctctc tctctctcct ctctctcttc tatttttcgt ttttaattat 120
agtcctctct ctctttctct tttattttcc gttttttaca attccagttc agacttttag 180
ttttatcaat aaaatttcat tctctatttg attaatggaa ggctaagtcc gcaacgttgt 240
tttcccttga ggatcaagca cagttctttt tgaggttcta ttattactgt taaattctgt 300
ttagttgttc ctcttcaacta attactttga atttggtgct ttttaattcat gcatgcttaa 360
tgcttgatta attgactctg cgcttaattt acgttcatgc ttaatgatcg cttatgagta 420

ataggcgtat gtgatgctca atcacataat gaatgcccta tgttgaattt cgcttaataa 480
 ttttaatttac ggttggatta aatgggttaa ctgataaaag ataaactctc gtaacctagg 540
 ataagagact tgcttgtgaa tcaggggaag caacgggggtt aatcttgata tttctaaatc 600
 acatatattt gtgttaactt acaaagcaaa caaccccccc ccacgtact gtt 653

<210> 3961
 <211> 544
 <212> DNA
 <213> Glycine max

<400> 3961

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 taaatacacc cccttgccct tttttggaga ttcttttttt gtaaagatac gaaaacttac 180
 ggatttcgca atgatactag ttttctttcc gtaatggtct acggaacctt gcgaattaca 240
 taatcatccc cttttttgac ttatggaatg ttacggaacc ttactaattg tgcaacgatg 300
 cttcattttg atttctggtg tttcacggaa ctttacggat tgtgcatcaa taccttcttt 360
 tgatttcggg catgtcttgg aacttcacaa attgcctaatt gatgggtgcc aagcacctca 420
 caaggatcaa acaaaagttg cttgccccca agcaaaggct cccggacgaa attatggtat 480
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 tcat 544

<210> 3962
 <211> 546
 <212> DNA
 <213> Glycine max

<400> 3962

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 aattgtttgc tataccttct cttccattgt tgtttcttca tttttctaca tgtatctgct 120
 cacatgtctt gtgctaaatg gtgctaacat gattctttag atttccacc gattaaactt 180
 gctatagaag ctagatttga ttttctatgg ttcaaactct ttgatcttgt tcttgaacca 240
 tgaattatgt tgagtatacg ttcctttgag atttgtcttg ttattttttt tggctgaaac 300

ctaaaccata aaattcttac aacaatatta aattacaaga aaacctcaaa aatctagagt 360
gacttgttca cctattgtag atttgtcata taagtcattg ctagtcattga aacttgtcac 420
ataagatttc ttatgtcttg ctgaatttta ttttcttgct tctttggcta actcatttgt 480
tcatgagtgt atgacattat tctcacctat tatttgattt gagtcaaatt ttgcatgtta 540
attaac 546

<210> 3963
<211> 580
<212> DNA
<213> Glycine max

<400> 3963

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caagaagagt taggtctagc cggggcccac aagcataaga ttgcggacga atatgcccac 120
gtatacgagg aaaaagaggc tagaggaagg gtgatcgact ctttacacca agaggcaacc 180
atgtggatgg accggtttgc tcttaccttg aacgggagtc aagaacttcc ccgcttatta 240
gccaaggcca aggcgatggc agacacctac tccacccccg aagagattca tgggcttctc 300
ggctattgtc agcatatgat agacttgatg gccacataa ttagaaatcg ttaggaaact 360
tgtatggtct ctacagacct gactagatat gacttctttt tttgaaataa aatgagtagg 420
tcccatgttt ctactccaaa aagcttgtgc aaataaaatc actcctacat ttaattctta 480
gcatgcctta tctatctttt acccactcct aacggttggg tttttaggga aaaacaccca 540
tactaaaccc gccgcagggg aaccctatc gcaccagatc 580

<210> 3964
<211> 705
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 3964

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ttaaccataa tgaattcccc tattctaaaa ggaagaactg aaatccccctc cgtaaaggaa 120
gaactgaaat cccctctaaa tctgaaaggt tggaataatg gaacccaaca acccacaatt 180

gttcatttta aaaagatgga aaccatgatg tatgactatt agaaatttta gtttactcat 240
 ttctttcagg aactttggaa aggtgtacta attagtttga aggtttaaaa tcacaacctc 300
 agcttgagtt ggttgcattg angaccaaca tgttgtggaa atttcattctg caaaagaaac 360
 taatatggtg tcaataactca atagtaggaa gagcaacaaa tgatagatca tangaacttt 420
 gtttttagtt attaccatct tcactttgta agtaaattgt ctatacttta gagaaagata 480
 tgactaaaca gttgatatag acaatgttcc agcaaggatt ttgtgggggtt tggttcaaca 540
 ttccctcaaa aaatatttga caatatttgg accatcatgc cttgctgttt ttctctaagc 600
 ccttcattca ggttattttg ggctgtgtca atcctaagtc tttttcttca ttcaacttgt 660
 ccttgggtgc ttcaataatt gggaaatctc ttacattgct ctacag 705

<210> 3965
 <211> 697
 <212> DNA
 <213> Glycine max

<400> 3965
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 caccatata caatcaaggc agcttcgtta cctagattat ttacacgtac ctccaagggtg 120
 tatttggtac ttacatcaca cacatctcct tggctaaact cacatacatg catactcaag 180
 cattttgggg caccaaaaat tgcacatgtg cacatcttgg catttctaatt acctacatac 240
 gcaaacttca tgatgaatct tgactatcta cacaataagg tgctacattt catgctcttt 300
 tttttttcaa gttttcgcta cctaaagccg catgcaaatt caagcatatt ttcttttgct 360
 gactaaaatt gcattcaaatt taaaaggta ttttttttgt aatatgtttt cttcacataa 420
 catgcaacat atttatatat atttttttgg gagacatttt tgactaccaa aaattatata 480
 tacatacatt caagtatttt gctattcata cccaaagtgc caattgccaa aggtatcttg 540
 ctacctattc taaacctaca cattcatgac gagcacattt tctaaacaac taggcgtagg 600
 gaaaaaata tattgggggc catacctgat tgctgccccaa aaagggttac cttacaaaaa 660
 tgccctcct tttgtatctt tttgcataaa atttaatt 697

<210> 3966
 <211> 502
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3966

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caagtacctt ggatttggtc cgaccatgcc ctctgattt ccagctggga aaatggcgagg 120
tggaagaacg ccccggcatt tacgcaaca gcataatgta aacctttacg gttttaaaag 180
ctctataatt gggcctaggg tttagagttt tcattttgtt aaggctttgt gtcttttgtc 240
tttgaattta taatacaagg atctttcttc atttgttcct ggtctctacc cattctcatt 300
catttgcattg tttacttctt tttctgaaac ggcagattcg atgacgagtc ccccgagggt 360
actaatacct gngacccgtc tatcaacttc gagcaagaaa tgaaccaaac ggaagatgaa 420
ggagatgagg aggtgggact tccttcagaa ctagaaagaa tgggtgcca tgaggaccaa 480
gaaatggggc ctcatcaaga ag 502

<210> 3967

<211> 600

<212> DNA

<213> Glycine max

<400> 3967

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acggatcatt tttcatgccc atacggctca taagtgatca caattcaagt aaacagaacc 120
ccttgattct ctcttatgac ttaactacgt aggtctgatt tcctctcgca cagtgtagga 180
ctacgtacgt atactgaagc cccgcttttg tcgactcatc aatagtaaga ataaatccaa 240
ggaactgtcc tacatttggg acaaactctaa attagtagcg tgctgtcctt tgaatacaat 300
acgtgatagg cgctaattcc ttactcagtc gtaagtgcaa ctccagacct gataattttc 360
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ctccatgcat catttcttgc tttgaaaagc acgcccgtga gcctcgccctc gctcgcccg 480
aaaagggctc gcttgcgaca ctaggaatct aaattggcct tggcatttta cgggcccattg 540
gcaatattcc tataagacac ccctaaattt taatattcct caccaacagt atgtcttgcc 600

<210> 3968

<211> 388

<212> DNA
<213> Glycine max

<400> 3968

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agtgaaaatg aattatttta tatatatgcc aaattttctc atgaccttat tttatataaa 120
agctgtgtat gtgcttgtag cctccggttg tattccaaca tatcatattg cattttcatt 180
tttaagcttc ttctgtctat cgtatcgtat ttaaagttga gagattgtgt attctcttga 240
tgaagtatgg acacaaacca ttaaagtcac tggccgaccg accatttact ctgttggtta 300
tcaacttcgt gccacaacct ataggagttc aatctcattc aaaccaataa catgtcatca 360
taataacctc ctacgggagc catttata 388

<210> 3969
<211> 589
<212> DNA
<213> Glycine max

<400> 3969

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accgtgtcta caacttgcaa actaagaaac tcgtcatcag tcgagatgtt gaagttgatg 120
aatatgcttc atggaattgg gatgaaaaaa aagtggagaa gaacgttctt atacccgctt 180
aactacctca agaagaatat gaggaagaag atctagggtga accaccttca cctacatcac 240
aacaacaaga tcaagaacta tcataccag agtctactcc aaaacgagta agatcttttg 300
tggacatata tgaaacttgt aacttggcca tacttgaacc tggaagcttt gaagaagcgt 360
caaagcacga agtatgggtc aaggcaatgg aagaagagat acagatgatc gagaaaagca 420
acacatggga gttagtaa at cgtcccatg gaaaagatat cattgggggtt aagtgggtct 480
ataagacaaa agctaaacct tgatggcacc atacagaaac accaagcgag gctttagact 540
aaaggtttct catagcaacc cggaattgac tacaatgaga catttgccc 589

<210> 3970
<211> 705
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 3970

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agtttatctc ttttatctta gtgagagtga ttctcctaaa ttcttgagtg attcaagaac 120
accttggtcg tatcaaagga ctttcacaac ctttgtgtgt agccctcgct ggaaagagtg 180
attctttcct tcctttcctc atcacccttg ttctttcaaa ccacaattcc agaaaatcca 240
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tcttgagcct aaattgaatt tcaaaacgag acctttcacc tcgttttgga atcacctcat 360
ttggagccct gtagcttcag ttattgccat ttctatattt ctgtccagcc accacttaac 420
ctacgtttta ccatcccatc catccatttt atgccaagaa ccaccttatt aagaccacg 480
anattagcca ccttattttc cattctttcc ttaatcaatn tccgcatttt ccatcaaggt 540
ttaatcctag acgatcctaa gtcagccctt gtgccatgtg ggttcatatc atttggtatc 600
agagctccgg tctaggatca acattccttt gctgggatat tggtaacatc cttcttattc 660
tctttgcatt tatataccct cttatcatat atatttttta ggctg 705

<210> 3971

<211> 468

<212> DNA

<213> Glycine max

<400> 3971

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gtttttatgg catttgaaca cttagtattt ctttttaata tttgttgagt atgactgaac 120
atgataatta tatttacttg cttttggttg tttatgggta tgaattttaa acttaattat 180
tttgataata tatgatcagt ggtatgtttg atcaaataatt aattatgtta tttgataatg 240
tgggtttttt tatatatttg atctatttat ggttcttgct atgatttggt ttatattttt 300
ccatgaatga ttgtatggat gcttaagtta tatttgtatg tttttaattt gttacgcact 360
ttggcatttt gttgatgccc aagggggaga aaaatatgga ttaaatcaac aactcacag 420
agtaatcaac ttacttttta gagaagcatt aattcaaaaa caaagggg 468

<210> 3972

<211> 525

<212> DNA

<213> Glycine max

<400> 3972

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tgaaccaact cttgtcaaag aattaactgt taggctgtta agtgaagaca cacatggctt 120
tatgttatat atctaacaat aatgaatcta ttaatatagc ttacaagttc attatgcata 180
caatttttagg tccaagtcac tgcatatatt ttcatgaacg aaatcaggac ctgcatattc 240
attattagat tcatatataa atttttgtcc gtacttccat agtgtccatt gacacatttt 300
tagcatatga ttctcttttc tatctttttc tccacaacaa tgagcccaag gagcagagtt 360
ttcttatgag catcaatcaa gaacgttcaa ttatttatat tacatgatag acaaactaaa 420
tttagtttat taatattgaa cacttttttg gataatagaa ataattttaa tactttaacc 480
aggtcatttt tatttgtctt agaataggca ttatgtgcac tttct 525

<210> 3973

<211> 473

<212> DNA

<213> Glycine max

<400> 3973

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tcattctgct tacttttggc attctttttc ttcattttta atgagtttcg accgatcggt 120
taagccgtaa cttcacttaa tcaatgtgaa aatgaatttc aaccaattgt ttgcgtcgta 180
atctcatata ataacattta aaataaaaatt caaccgatcg tatatgttgc aacctcggtt 240
aatcatcaaa agggaaagtc ttaaccaaatt atttactttg aaagtctctc ctaattgagt 300
taagaaataa ccaattgaga ctaacgctta catcaactca catatcaagc ttttgcccgt 360
aaaaaggcca ttgaaactg ttggaatgct caacgccttg acggcccccc atttactttg 420
atccatttaa gtatacattt ttaagggaaa cattttcgac ccccataaat ttt 473

<210> 3974

<211> 317

<212> DNA

<213> Glycine max

<400> 3974

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 aaaagatgta actcttcaaa ttgggttttt tctaaaagtt ataactcttc aaaatgggtct 120
 tcatgaccag acatgaagag tctataaaag caaggctttg ctttgcaattt tcaatcaatt 180
 cattctttca cttttcactt ttccaatcaa tcttttacia gccttgaatc tctttgaact 240
 tcttcttctt ctttgtacca aaagatttct gaagttttct ggctttccaa accttgaaaa 300
 cttgtgctat tcatctt 317

<210> 3975
 <211> 572
 <212> DNA
 <213> Glycine max

<400> 3975

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 aaaaggacat gtcaaaaagg ctaccaatac tttctgatag ttgccaac tataatgctt 180
 gtcaatttgg taaacaaaat agaaaatcat tccccaaatt agcttggaga acctctcaaa 240
 agttgcagct aattcacact gatgtggcag gacctcaaag aacaccatca ctacaaggta 300
 gtctctactt tattcttttc atagatgact ttacaagaat gtgctggatt tttttcttg 360
 aaattcaagc atgaagtggc tgaagttttt tgtaaattca agaaaatggg ggaaacttca 420
 agggacctga agattcaatg aaaatgggaa agaatatcca tccccataat tatttacttt 480
 ggggaacacc ttggtttgaa tattaactca cagcccccta ccctctgaac attggggatt 540
 ttgaaggatt aacaattcat tgttgggaag gc 572

<210> 3976
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 3976

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 ctttcaatgg acccactcaa aataataaca ttgaagcttc tagagagtga cacgtagatt 180

65307-50440

atacaaatat aatagttaga aatagatagt atcatattat agctgatata tatcagatga 240
ctaacataag atgatcactg ctagctggac cgcggcgtaa aattcatgcc agtaaagtat 300
taaattttga ctttattaat tcttttaaca ctttttagt ggaaaaaagg agttgaatat 360
atattgatgc ctactatatt cttatatcaa aaacagaacc gagttcta 408

<210> 3977
<211> 365
<212> DNA
<213> Glycine max

<400> 3977

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ataggtaaaa gttctatgac tcaggggggt ctagtttagt tggttaattg agtgggaatg 120
taagtattgt aaatttcatt gtacttcaat tgcgacagat aaaagaaaaa gataaaattt 180
ttacatacac tacaattata ggtgtcattg taagtgtgta ttggtacagg taactttttt 240
gtagtgttaa cacctgtagc gacctgcctt gtcaatacga aatctctact ctaaaacacg 300
acatttcaat tttttcatga tatacattca ccaaataagc ataaacatgt gtgtgtgtgt 360
gtgcg 365

<210> 3978
<211> 345
<212> DNA
<213> Glycine max

<400> 3978

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gagagatgtg atcttctaag tggtagtagg acaacactaa ttttttattc attattcgca 120
ccaacatcct tgaatttctt actatcagta acatggctta cgggattcat tgaaatcctt 180
agtgagctta cgatatgaac ttgatcaatt gaaatttaag catattttta atttgcatta 240
tgtttgtctt tcagattaat tatatattat aaatttgttt ttctaattctt cgcacaaggt 300
ctaagtctac tattcttaga tgataaacag agttcatggc acatg 345

<210> 3979
<211> 709
<212> DNA

<213> Glycine max

<400> 3979

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cttcaagggt ttgtatacaa taaaatcggt aaggagttgt ggcataatgcc aaaagtgggc 120
aatagctttt gcaggggaca ttgtgctcaa gccaacaat tagtaccatt tccaccaaatt 180
gatttgtgca gttttacatg agaaaagtcc atgagagaca tcctcataca ttagattaca 240
aaaagcacat gctataccac cttgaagagt gacttgcctt ttgtgtaggt ttacctttgt 300
aagtaaccta tctttcaaaa ctctccaaat catgaaagta atcttttgta ggattataat 360
ttgccataac cttttaaaca catcaactta ataagtccta atccttaatt cattcaaggc 420
acgatagggt gatattaccg tataaaacag tggcaatgcg gggttttaagt tactaaagac 480
gtacgccccat tgtaaattt acctcccaa attgctagac ataacctttt tttttataac 540
ccttttttcc aaataaaaat accccacttg ttaaatctac ctctataaat attttccttt 600
ttattatttt gatttttttt ccaataagga tcacctttgg gaaactactt gcaattttcc 660
tggaatgaga aagatccttt aaaaattgta ataaaaaggg gtgaaaaaa 709

<210> 3980

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 3980

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gaaccagct gcaaaatatg agcaagcggg agcatgagtc ctttaaggag tacgccaac 180
ggtggagaga cttggcggca caagtggcgc ccccatggtg gaaagggaaa tgataactat 240
gatagtggac aactgccag cgttctatta tgaaaaattg gtgggttaca tgccctctag 300
cttcacaaat ttagtatttg tgggcgagag gatcaaagta ngtctgaaaa aggggatcag 360
cggttaatgc ggtggaagaa atgtgacctc agaagctgaa gtagttgaaa gatgtgataa 420
cctcgaggaa gtttat 436

<210> 3981
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 3981

agcttttctt ggaccttagg caaaccttca actcatcctt catgatcaaa ctgtctactc 60
 gtgattggtc cctttctctt ctccggagct taagctcgct gttactgccc ccacagagcc 120
 cctcggaatt tgttccggcc atgttcttcc ctacgagccc ttttgggtctc ttgttccaag 180
 gccttgggtgg tagctatatt tgcattcttc agtccggcat tcttctttcg gatcttgaga 240
 gctgctgatt taaacctttc ttttactgtt ggggcttctc caattc 286

<210> 3982
 <211> 605
 <212> DNA
 <213> Glycine max

<400> 3982

tcctctctaa gcttcttctc caatgaactc tcttgggtgg gatgctcctc cttccatggc 60
 ttattcccta gtggatggcg cctcctctca cctcttcttc tttatcttcc actgcatctc 120
 cacaattgaa aatcaccatt gaaggacctc attgaagctc aaagatccaa cctctataga 180
 agctttctcaa gcaagcttca atcatataac cccatagtca gtatcacatg aacaacatat 240
 tctcccccta atggattgac aacagtttca gcattgctct cctttgtgct caccgtgca 300
 cctaatacct atatatccgc cttaatcagg ggtgagtact gcgatcccct ttggaataac 360
 tcatttttga tggcttcttc caactcttgt tttattttct ctagactcag tttgttttct 420
 tcttccactc ttccttaaag tttccgatta tctcattctt ccaatcttct ttaaggattc 480
 caattatttc acccaaattg tgttgggtga tggatgtaaa ggaattgtta aaccacgtga 540
 tgccttcca tagttgtgac tgatttcaca ctaaaccat tgcacgaaca tgacctacgt 600
 gctcc 605

<210> 3983
 <211> 528
 <212> DNA
 <213> Glycine max

<400> 3983

atatgggtca tcaaattctat catgtgttga cagtaattga ttagcccatg aatctcctcg 120
 ggggctgtac acgcttcggc catggctttt gctttggcta atagtcgagg gaggtcttga 180
 cttccattca aggtcaaggc gaacctatcc atccacatag tcgcttcttg atgcaatgca 240
 tcaatcacc cccctcttgc ttctttttcg gtgtacactt gtgcaaaatc ctccactagc 300
 ttttgctcat gggtcacaga ctgggttcaac tcttccttat aatgccctat gatagctagc 360
 atgctttgct ctgtggcttc caagtgttga gccaaactcc tcttgatct tgtgcaagca 420
 gctaactctt cttttaagat catgccatgc acccgtgacc aggtctcttt ctctcttcgg 480
 agcttgaact catttttgct accccacaaa gcttctcgga atttctctcg gccatggttc 540
 ttctttgcag cctttttggg ttcttgttca agggctcttt gaggggcccc ctttt 595

<210> 3986
 <211> 503
 <212> DNA
 <213> Glycine max

<400> 3986

ttgcacgtat cagtcaagt tatggaccat atcgtagcca tgtgctcatc gataatggtt 60
 ccagtttaaa cgtgacgcct aaaagcactt tggagaaatt accattcaat gcttcccacc 120
 taaagccgaa ttcaatgggtg gtctgtgcct tcgacggcac ccgccgagag gttaggggag 180
 agatcgacct cccagtatag ataggccctc acacctgtca agttaccttc caaataatgg 240
 atcttaaccc cctacagct gtctgttggg gcgaccgtgg atccactcgg tgggagttgt 300
 tccctctaca ctccacaaa agttgaaatt cgtagtggaa gggcatctgg tcatcgtatc 360
 aagcgaggaa gacatcttgg tgagctgccc atcctctatg ccttatgtgg aagccgcaga 420
 agagtcatta gacaccgctt ttccatcttt cgagggggta agcattttct ccgtggattc 480
 cttctctgag caagcttgcc tgc 503

<210> 3987
 <211> 589
 <212> DNA
 <213> Glycine max

<400> 3987

agcttcttag ttccagatga tgcagatggg ttgttagcta cctcatgcac tccctaatg 60

actatggcat catttctggc gctaaactgc tgggagttgg aagccatctt ctcaattaaa 120
 tttctggctt cagcaagagt catgtctcca agggctccac cactggcagc atctatcata 180
 cttctctcca tattactgag tccttcataa aaattttgga gaagaagcta ctccgaaatc 240
 tgatggtggg ggcaactggc atatatgttt ttaaactctt cccagtactc atacaggctc 300
 tctccactga gttgtctaat acctgagata tccttcctga tggctgtggg cctggaagca 360
 gggaaatttt ttttctaaga atactctctt aaggctcatct cagcttgtga tggaccttgg 420
 agcaaggtaa tacagccagt cctttgccac tccttctaataaat gaatgaggaa aagccttcag 480
 aaatatgtga tcctcttgga catctggggg tttcatggtg gagcagacaa tgtgaaattc 540
 tttcaaatgt ttgtgcgggt ctacactgc aaggccatga aactttgga 589

<210> 3988
 <211> 546
 <212> DNA
 <213> Glycine max

<400> 3988

tcttatccaa ggcacatttt tgggtggcaaa gctccttctt ccatagctta ttccctagtg 60
 gatggcgctt cctctcacct cttttccttt atcttccgct gcactctccat ggtggaaaat 120
 caccattgaa agacctcatt gaagctcaaa gattcagcca cctcttctcc tttatcttcc 180
 gctgcacttc catggtggaa aatcaccatt gaaagacctc attgaagtgc aaagatccag 240
 cgacctcttc tcctttatct tccactgcat ctgagagttg tcaattgctg aggagtgaat 300
 ttttctagcc actatcttgt agtcaatctc aaaaactact tgatccaggc caagcaattc 360
 tacaaactcc atggcagcta gcaaacccta cgcctccccc tcaactaacc acatgcacag 420
 ctccctccac aatgtcctag ccatgacaat tactcctcta gcatagcgga tgcacatccc 480
 aactcctgta cagttgctct gagcaaaaaa gccaacatct acattgcact taacaaatcc 540
 atcctc 546

<210> 3989
 <211> 462
 <212> DNA
 <213> Glycine max

<400> 3989

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catttattcc ggcattgtata tagatggaat ttgagcaaaa aacagccaag agccccatat 120
atagttcaaa cggttcactct gcctcataaa agaaaaccaa aataatgaat gtttacatga 180
attaacaata actccatatg tataattaac aataagggtc acctatctat atggaagctc 240
ataaatgaca ttatttataa caattatgct ttgccatat tgaggctgtg ggacaatata 300
attatcctgt attggtcttg gatgaggggg agggaaaagg attttaatgg tccttatcac 360
caatgggggt aatctatggc tgtgggtttt aaataccgaa aatgtctgtt ggattgggtg 420
gaatagctat ttgataggag gttgcatatt tttatttact tt 462

<210> 3990
<211> 603
<212> DNA
<213> Glycine max

<400> 3990
aacatgatca cgcttattaa ttactcagtt ttatttcatt ttgactagaa tttttttttt 60
aagaatgaat tttgactaga aaattaatca catatttatg tttatcttta catttatata 120
catacaggac atatcatatg agagaaatat atatttatg agagtgagaa aattaaatct 180
aatccatata actaaaatat tgatcatcat catttaatgt catttgacc cttagaagaat 240
catgtgactt tttgacatta aatcttaatt ttttatatat gattatataa ttcaaattta 300
atcatttcac tctcatataa tatgttttct cttaaaagat atgtcatata tatataaaag 360
gagaagggtg ggatattttt acatataaaa ggagatggtg aaggtagttt tgaaagaaaa 420
tcaaattcat gaggatcact ttaatttatg agaaacacat ttcattatgt taattgtcac 480
ctaatgtaaa ttcaagattt ggggttaaac accaggaat aaaaataaaa attttaatat 540
attatgtact taaaacaaca aaaaaattat tttggactca gaaacaaaat cccttcttta 600
tta 603

<210> 3991
<211> 308
<212> DNA
<213> Glycine max

<400> 3991

catgcctgct tatttaaaaa aaaaaaacgt aattttttct tctaaaagcg tcatggaaaa 60
 aaatatccaa accgacccaa atgtgtttga gtaaaagcat atttactacc accatacagg 120
 gcactgtcct ttctagccaa aaagtgaaaa tactatgcgg ctcaaaattt aaacttagac 180
 atatgttctt gtgccaaggg gttaagggga cagcaacttc tgtcatcccc tcttttggcc 240
 cttatatatt tatgaactcc acaccttgat gtagaaaatt caataaactt tttgggtcac 300
 ccgatctt 308

<210> 3992
 <211> 539
 <212> DNA
 <213> Glycine max

<400> 3992

tcttgaacgt gatcaatata tttattggca cagaataaag gatgaagatg tgggttcgtga 60
 tatcttttgg tgtcaccttg attcactgaa gttagtcaac gcatgtaatt tgggtgtttt 120
 gatagacagc acctacaaaa caaacggga tagactccca ttgctcgatt ttgttggggg 180
 gacaccgact gggatgacat tctctgccgg ttttgcata gtggaggggtg aacgcgttaa 240
 taattttgta tgggctttac aacgcttctg aagccttttt ttaaagcgtg atgccctccc 300
 tggagttatt gtcactgata gagaccaagc attgatgaat gtagtgaaag atgtattccc 360
 tgaatgcaca aatttgttgt gcatctttca cataaacaag aatgtgaagg ccaaatgtaa 420
 atcactaatt gcgcaaaaaa atgcttggga ttatgtcatg gattgctggg gatctctgac 480
 tgattgtcct tcaaaacaac agtttgatga atgccttgaa taagttcgaa atagcttgc 539

<210> 3993
 <211> 923
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 3993

cactcacgtc aactgcgaga tttctatagt acgtcataca tacactagcg cagcgctaa 60
 ctgcgatcga taacttctat agtaatcaga tatgtataa annnnncaag agagttgaga 120
 tcgtgagcat tcgcgcacgc atcnatctta tctacaagca tgcagctagc agctaactga 180

tatacatata tcttagtatt ttgtactac a

631

<210> 3995
<211> 382
<212> DNA
<213> Glycine max

<400> 3995

agcttttaaat gcataatata cacgcttacg ggttcactct cgcttcgtac agactaatat 60
taatctcgtc tactttggca accctatcat gagcatctaa aagagttata accactcgat 120
aaagccgaaa catcgctaaa tctatgccaa aatgaatctc atcccatggg cgccgtacac 180
atcgtctata ctatgcttaa aaataaagtt caaccgaccg tctctgtttg caccttatat 240
tatcataaga acggatagcc ttagccaaat attgactata aaagaccttt attgttccat 300
tcaaaaataa cgctgtcaac ctaaggctaa aaacaactct cagaatgtgc tgatgccacg 360
aaaagggtca ttccaaactg gg 382

<210> 3996
<211> 414
<212> DNA
<213> Glycine max

<400> 3996

gctgtgtgct caggggcgcg actccagagt tcgggtggcca ctgactgcga ctaagatgac 60
ccgaagacgt tgcatttcgt actagcatgc ttctctgagt tataactatg aaaaatggtc 120
gtggaggaca gacatgggtca gtatataacg accatgctgt gaactgcttt ggcaatcaaa 180
gcattctttc actgctcacg ctttagagca atcctttaca agccgcgaag cgctttgagc 240
ttctgcttct tctttgcacc gatcgatctc tgaagtgttt ctgggtgtcc aaaccttgaa 300
aaccagtgcc atgcatactt tcatactctt gaccctatgc catccaaaga tctaccacgg 360
actaagcgcc tgaattcgcg acgtgtctct cttcttccct ctcgaaagga acca 414

<210> 3997
<211> 601
<212> DNA
<213> Glycine max

<400> 3997

agcttggttac taattagatt agattattaa aaataatata gcaaatagga gcaaaaataat 60
 tgtcatcgat tgtgacgtga ggtgattata aggatgttca catgtgtgaa aactcaaaca 120
 gagtcaaate aattcaatta gttcgatttt aattttgaga gtttgaatta aactcgattc 180
 gattcaatat gtataaaccc gttaaattgt tggggatgct taaccggctc agttttttta 240
 agccgtgatc caacctaat ttgcattgat ctgacattta attaaattta ttacatatat 300
 atattaaatt attaaatata taatatttta ttttttaaaa atactttact aaattattaa 360
 atcaaattat tcatgttttt tattatattt tcatcttgat tttatttata tttttcatat 420
 tattgcatta tttgattttt tttaaaaaat aaaatatggg atatattagc atttaaaca 480
 ttcattctat caaacaata tgtcacaatt taatttattt aaaggacatt ttcatatatt 540
 taaaaagttt aagataaaaa ctttttattt aaaaacttta ttttataact cactttgaaa 600
 t 601

<210> 3998
 <211> 558
 <212> DNA
 <213> Glycine max

<400> 3998
 tgtgcatggg aaaatagttg tttgtgaaag aggtaaaaag ggaataacta agatggggaga 60
 ggtagtgaag gtggcttatg gggcgggaat gatagtactt aatactaaaa atcaagctga 120
 agaaaattat gttgatcttc atattttgct agccacttcc ttaggagcct ccagtggtaa 180
 gactattaag acctatattc tatctgataa gaaaccaaca acttcaattt cctttatggg 240
 aataaagtat attgaccctg caccagtaat gagagcattt tcttctaaaa gaccaagtat 300
 agtgggacta gatgtgactg acccaactgc gaatatcttg gctgctcggc cactaaaaac 360
 taaccaagt tttatcatga atgacataag agaagtacta tttaacattc tcttaggtgc 420
 ttcaatgtct atgcctaatt ttagtggcat agcaacactt tttaaatatt tgcacactga 480
 ttggtcccct gcagctatca aatctgcttt gatgactact gcttacacat tgaacaacag 540
 aggagctgca atttcata 558

<210> 3999
 <211> 440
 <212> DNA

<213> Glycine max

<400> 3999

agcttggttac aaccaatatt ctttgccta ctaagtcatt gttggctcta acacaaatga 60
gaagatttgt tattttgatt gcacaatgac taatggtaaa ttactttttg agtgggtattt 120
tgtgtgagtt tttgtgtcat tttgcatgta tttttcttag tagaactcat gtttggacac 180
tagttttgta ttgcagaagc ataaccgctt aattgagtga aaaaattaaa gattacacaa 240
atztatcaag atttgatgac ttacacttg atcacggccg tggtagattt accacgacca 300
tggtaatcaa cacaatgata ataaagtgat aacaatcctc taaaacaatg tcaaaatccg 360
ataatggtcg tggccaacta atgggggtca tggccaacta agatggatcc attcatgagg 420
gtcgtgggta atccataatg 440

<210> 4000

<211> 619

<212> DNA

<213> Glycine max

<400> 4000

tctagaatct agtggttttc gaaatcaa at tggaatttgg aacagtgcga cgttgctcat 60
gactttgagg tccctcaatt aaagggttag tgtaacattt gagtgagtaa tttcagtgtg 120
aactggaaaa tttaatgtat agtatacttg tatacattta gttgtaattg tatagaattt 180
ttagtaaaag agaaccaaaa ctaatataag attaccagaa atgttaaaac taaaatattt 240
aaaatgcaaa acacaagata caacatttca cttgttatta aataattatg aacaaagtca 300
ctgagttgaa aaccaactct aattatacat aacacaactc aacattcaaa gttgtaaaac 360
ccccaaaag taaaacataa gtcaccttg aaaagaataa atgaaaatca aatctaataa 420
aattgaaata cgtaatatat tatatataat aaaattgtct agttcaaaaa tgatagtaga 480
atcattccca acatcatttc tcacaaaata caccaaagag ttataaacat aagtttatag 540
agattgatag agtataatgt acttaaatta caaacaatg cagaatagaa cagagttaga 600
ttttggattt gggaactca 619

<210> 4001

<211> 554

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4001

agctttctta attatatgtc tctctatata ttaaattttt aaaaatttat atatattttt 60
actaccatat actttataaa ttaaaaaaat acattaaaag ttataactaat aaataaattt 120
tagtagatta taaatataat aatgatttat tatataagat gaaccaaca gttgggtgtt 180
gagtgggaca tttgtgtatt tgagcttatg aatagaagta gagggaaacta gtgaagagat 240
aaagaagacg gaggcggttt ggagtatgac ttcttgcacc tcttttgcac cctttctcat 300
ttctttctct tcatttcctt cattgtgctt cgcgcaaacc cactcaatca catgtaaaca 360
acgcttccca tttccttctg taaagggaag aagaaagtcc tcaactttat cattntcatc 420
caccaaaagg ctcgttacaa gagccgctga gtacaaattc ccaaacccta tttccgaatt 480
tgcaaagcc gtgagtttat ctcttatctt ccattctatc actttatcaa gtgaataaaa 540
ttaacttcat gttc 554

<210> 4002

<211> 424

<212> DNA

<213> Glycine max

<400> 4002

tgtagaacta tggttgattt tccctacggt tgttttttgt tccacttttt ctttgttcaa 60
atatattcaa gggaaattcg gtttgccgga aagcacaccg gatcgtcaag tatttaaaaa 120
ttaaaacgga tgaatccgag tatcgaacac agggaaactaa tgtttacctg aattaagtcc 180
agaaatgaag cattgttgag agaacatgta tgattgataa tttcaaaca aatttaaact 240
aacttttatg ctaaaaacta taaaaagcaa ggtaagtaaa agtgacaaca gtaggcagaa 300
attgttgggt ctttctaaca aacaagctga tgcataataa tatatttctc taatcaatca 360
gactcttggt ttctatgctg tagcctaaat tactaaacct cgatccctcg tcagaccgaa 420
tcaa 424

<210> 4003

<211> 503

<212> DNA

<213> Glycine max

<400> 4003

agctttatca aatggatgta aaaagtgaat tctcaaattg ctttattcaa gagaaagtat 60
atgtagatca accccctgga ttgaaaact cagacaagcc caatcatggt tttagattaa 120
aaaaggcttt atatggctta aagcaagccc ctagggcttg gtatgagcgt ctaaataagt 180
tcctttttaga aaaggatttc tctagaggcc aagtagatac tactcttttc ataaagagaa 240
aattacatga tattttattg gttcaaattt atgttgatga tattattttt ggatctacta 300
atgaattatt gtgcaaggaa ttctctcatg acatgcaaaa tgagtttgaa atgtcaatga 360
tgggagaact taatttcttt cttggattac aaattaaaaa aaccaagact ggaatttttg 420
tcaatcaatc caagtactgc aaagagttaa ttcacagatt caggatggaa aatgctaagc 480
acatggctac accaatgagc act 503

<210> 4004

<211> 666

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4004

tgcagctcat aatctctcca tagttttag caatgttggt ccatttgga attctactct 60
aaaaatttcc atgattgcta aggtacatgc gaatattaca attaatgtaa agatatcatg 120
aagaaaaata taatcatctt caatagatat tactctcttg aactattaaa tatataagga 180
gagattcact tgcttcactt caagagtaaa tagttatttt tcatttttat tatttatttt 240
tttaaaaatc taatgattaa gattagttac ttattaaata ataaaaataa aaaataacta 300
taaaagaatt atcttttgaa taagtggatc tctcctctct ttacatataa ttagcttaat 360
tgtagtattt gttgtttctc acttttatgt ctattacata aaactttagt actaaattgt 420
tgtaatatat ttctgtaggt ggaccgtgaa ttcaacatgg caatggacga ctagtgaaa 480
aaattgaacg aggatttgct gaagtgtgc aacttgcaac aagaatatta atgaatcacg 540
tacgcagcgt attagctatt tgaaggtttt aatacattat anactcgcat ttagtctttg 600
tagtttctca attgttaaaa ttgagtctct cacctcatat tttgtacaat atttaataga 660
aatgtc 666

<210> 4005
 <211> 643
 <212> DNA
 <213> Glycine max

<400> 4005

agcttccatc aagtggatc agaattaaat aacattaatt attttgatga tgcttttgta 60
 acctagatgg tagtttgagg gctagtgcaa tgcaggatg ttgattgggc tgagctgcat 120
 agaaagggat ttaattaaca tcctgaattt tggaaaattc gtataattcc ttgctttcaa 180
 tctcttgga aattcatatc ctcttaaatt tattggtaat gcctgttact gaactaaata 240
 gaaacaaaag tttttaagct gagatctgct accttgatgt tcttcatctt tccatccttc 300
 agtttagtat tctagaaaaa ctttactgct tttccttggt tttaaacttt gattttctta 360
 ttataaataa tttctctata gttgtctaac attatttgct tcatgaaggc acagtaaaat 420
 atactttgaa atcatggctc acttctggat atgaagtatt gaaaatcaga aatatcctat 480
 gggtaatgga acaccctatt tgataactta acttatataa attttgtttt tgggtcattt 540
 tgagggtttt ttaatgatgg aattaatgaa aaaccttctg gtgggttttt tttcttcaag 600
 ttatgacaac cagaacaggg atagcaagta ccaaccaat ttc 643

<210> 4006
 <211> 339
 <212> DNA
 <213> Glycine max

<400> 4006

atactcaagc tcggtgatgg tcataagggtg ataacacatg gagtgtgtaa atgtgtcaat 60
 atgaagatgg gggggggatt gaagacattg tggatgcgtt tgtgttgagg ctagggggaa 120
 tggatatggt gttaggagtt gcctgggtta gcactcttgg gaatgtgatt atggattgga 180
 aggccatgac tatgcaattt tcttatgaaa atgagttggt gaaattgcta ggtcaaggca 240
 ataaggatgg caacaatgt tatttgaact cctatcttga ggatactcat agcacaactg 300
 aattgggctg gtgggggggt catctacagt taatggaag 339

<210> 4007
 <211> 213
 <212> DNA

<213> Glycine max

<400> 4007

agcttcatgg aggctggatc tttcagcgtc aatgataacc ttcaatggag atgcagcata 60
agataaagga gaagaagtga gaggaggcgt catcccctag ggaataaacc atggaaggag 120
gatcttcacc accaagagag ggcctttctc ttagaagctt gaagatgaag ctgccatggc 180
cgaaaagaat gacatagaaa tttacggggg ggg 213

<210> 4008

<211> 585

<212> DNA

<213> Glycine max

<400> 4008

tctcccctat tttcctataa atagggggag aaagtgaagg tttttatggt cagccctcct 60
ggtgattcga gatcacttga aattagtga aaaaattatt tccgtgaaga aaatccaagc 120
tgaggcgctt ccgtaacgtt tccgtgggtg atttctcgaa gattttcaac cgttcttcga 180
cgttcttcgt cgttcttcgg tcttcaaccg ggaagttccc aaaatcgaac ttttcaattc 240
attctatgta cccttagtgg tcttcatttg ttttcacgtg cttttatttt catttcattt 300
acttttcgta cccccttttg acgtgcttta atcatttact taagtcattc tctcgccctaa 360
tcaaaaaata aaatatattt ccaccgatca tttgaattgt aacatccgtt aatttttctt 420
taaataaata cggaccgttc ggtcatgccg taaccactt ggaaacaaaa aaaagggttaa 480
ataataatat aatattcaaa atatctttta gttaaataaa tcacaaaaat cattcggacg 540
ttgttctttg ggattttctt tcttaaactg aattcactaa taacc 585

<210> 4009

<211> 401

<212> DNA

<213> Glycine max

<400> 4009

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atatatcgag aactcgaata ttgaataccg aagctctgag caaattcaaa agacaataac 120
tttttactcg gatgtctgat tgagtctcgt aatatatcga gacgctcgaa attgaatacc 180

gaagctatga gcaaattcaa aagacaataa ctttttactc ggctgtctga ttgagtctcg 240
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<210> 4010
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<400> 4010

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<400> 4011

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 aataaaagac gtacaagaag gaaaaatata aaatatgcta gttattagag tat 353

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<400> 4013

1707

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 <211> 461
 <212> DNA
 <213> Glycine max

<400> 4014

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<210> 4015
 <211> 455
 <212> DNA
 <213> Glycine max

<400> 4015

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455

<210> 4016
<211> 253
<212> DNA
<213> Glycine max

<400> 4016

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ctgaggctga ctc 253

<210> 4017
<211> 1195
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4017

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 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
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<210> 4019
 <211> 620
 <212> DNA
 <213> Glycine max

<400> 4019

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 <211> 702
 <212> DNA
 <213> Glycine max

<400> 4020

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<210> 4021
 <211> 532
 <212> DNA

<213> Glycine max

<400> 4021

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gatagacatg tagaggagta gctggtttct tgggggtgtcc ataggtaaca attgtccttt 240
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attccaatga tctttccttt agagccatct ccaaagtca cataactagt ggagcagggc 480
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<210> 4022

<211> 600

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4022

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tcaccatctt gcaacatgca acatagacga tggttctgac ttttatgact ggatggactg 360
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tctgttggtg ccttttagat tattattatt antaatttgg ttttcgtaca atatttcctt 480
tatttctaca tatactgcta gttntattta tgggtaaata gtttgctcat cctaaatcat 540
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<210> 4023

<211> 745

Abstract

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 <211> 530
 <212> DNA
 <213> Glycine max

<400> 4025

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 <211> 370
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 <213> Glycine max

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 <211> 526
 <212> DNA
 <213> Glycine max

<400> 4027

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 <211> 591
 <212> DNA
 <213> Glycine max

<400> 4028

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 <211> 501
 <212> DNA
 <213> Glycine max

<400> 4029

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 aagtgaataa gatcgaggac a 501

<210> 4030
 <211> 553
 <212> DNA
 <213> Glycine max

<400> 4030

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 <211> 311
 <212> DNA
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 atgatatggt attgcttcgg tgtgggaatg caaatgaagc tgggcagata ctaacagaag 240
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<210> 4032
 <211> 540
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4032

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 <211> 283
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 <213> Glycine max

<400> 4033

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 ctgagggtta tacctagcag cctatgtagt actttttctc cat 283

<210> 4034
 <211> 470
 <212> DNA
 <213> Glycine max

<400> 4034

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 ttcagaaaat tttaacgaaa cagatgtttt aatataattg gcaaattggt ttcaatttaa 180
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 gaaacctgta accagaactt ccaccatga ccaaccaatc taagatgctg ttcttctata 360
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<210> 4035
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 <213> Glycine max

<400> 4035

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 tagtaattta gtttttagta gacattttca tgttagaaga tacagcaaatt attttaagt 180
 aaagagagt aaagaatata tgaactaatt gtagtccttt gttctctaga cagaattaca 240
 atttactgag taatagcctg agtcacgtag cttgtgttta gatcctttat atgattgaat 300
 ttaaagctaa gcttgagctt ggttttagta aaacaaacaa gtttgattat atttaacggg 360

ttgagcttga atagttgagg aatagctcaa cccatttacg ttcttttagga taccattctc 420
 gtggttcaac ttacaagact atcaactgta tatgcaaaca ataattttac agattcttcc 480
 aggattatctt aaggaaatta aggagcagaa cagatctgtg gcacattctt catataaata 540
 ttatcaatgc cttgtccaaa ccaaattgaa attgatgggtt tac 583

<210> 4036
 <211> 617
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4036

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 taattcataa attttatttg ataccttgca tagcattgca tttagcaaat acaattttaac 180
 atgcttggtt tataagtatt gacacaaaaa aggcttatga aaataccttg tattgcatgt 240
 tgctagggct tattaaaaat atcaaataat ttacatgtg tctgtgaaat cagacttatt 300
 aatgatgcga taaattatgt aactatcatg tctctcgttg atgttgctaa aaaaattggt 360
 tatgaagtat agggattaaa agtgcatttt gcaaaaagtt taaagatcga gaacataatt 420
 aaccatttaa attattatca ataaaaataac cttaaantta aaatacaaac ataggtagat 480
 gtaatntata ttatcaatta ttgataaaaa aaaatataat aatgtttatg tgaacaaaat 540
 atttttttga ccaaaaaata aacgcagtgt ttttatattc aaaatcattt tacagttaaa 600
 tatttaattg ttataaa 617

<210> 4037
 <211> 988
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4037

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 cgaacgagct ttttcnncc ccggaggggt ggacctggaa gaccccggtt tttgaaaacc 120
 ccccgaggca gccaatgca aaaaaaggga gggagaaact ttttttaaac cccaataagc 180

agacacgggg ggggtgttta aagcccatcc ccccaaaagt gaaccacagg aagtaacaaa 240
cagacgtaga ttcaagagaa acaaagaaat aaggagcgca gttaagctca gacagcagga 300
gacagagtga gcaacaagaa gccccgttca tgcaacacca aaaaagcgcg aatagaagag 360
cgcacgaaac aggcagaaag tagactgact cctaatacaa aaacgcgaat gatgacaata 420
gacgaaatga cgctaataag aaaagaggac acatcgcgca gaccgagaca gacgaactgg 480
cagcagagaa aaaaacgacg gagaagaacg tgtggaacta cgacacgcca cggaggcgat 540
ccacataaat aaaaggtggg agtaaacaga cagggcataa ttggattgat cgggaaaaag 600
gactcgcggg gagtatgatc aatacgattg caccgaaacg ggcacgtagg caaacctaa 660
gtcaactatc acttgacag agaacgaact acgaggcagt caatcgatta caccgcaacg 720
gacggcatat gtagacagac acagcggatg gtataggaca gaaaactcga cagaaaataa 780
aagctatagt atatggatgt gcatagactc ccgacaaaaga acgttatcag gagggcgaga 840
ataacctacg acaaaagtga ttcaagaatc gattctacct ctaaaccgcc gccgaactaa 900
caccgtacct gcgtatatca caaaattctc gacctccgca acgattacgt aatcctcacg 960
catcgacgga tatagacacc ggaagacc 988

<210> 4038
<211> 835
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4038

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gggacaatgt agttgagcct tgcaccttgc ataattatga gactaaaata tccccagtgg 180
agaatacctt tgcataatgc tttttttttt caactttata cacacatagt taaacaactt 240
ataactgtgc ctaagctaaa aagcttcttc ttttgaacct agcaccaga tttaaggttc 300
caattcaatt attcccgat cttttaaatt tagttaaggg aacttccctt tgttcttttt 360
taaaacttgc cccttcctta actttgacct agatacaaag atgagtcctc cgaaagtacc 420
catacctgtg actccctttt ttttgttcat tgtgcaatcc atgaaatgta atgagtacgt 480
atggaagttt attgactttt cccccacct gaagaaattt tttccatttt ttcacatctt 540

cgttcggaga aataaaagac tccggctctt ttcttttctg ggcgaccaa aaaagttct 600
ctctccctct ctgggtttct caatttctt cgcaacacag taaaaaatct tttaaaaaat 660
ctcactcact tttccgcgaa ataatatgat aagcctaggt tgtgttcta catattcaca 720
acttttttct ttgccaaaa agatgttccc cactcttttc cctatagcct ttttagcgag 780
aaaaacactt cacttctaca caggtagtag tagcttttcg acgcctatct ctgc 835

<210> 4039
<211> 435
<212> DNA
<213> Glycine max

<400> 4039

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attataaacc aaagaaaagg tatacaatta tcaaatattt tggcaaataa atacaaacag 120
tttcaggaca aagatttgct ctaaataatt gctaaaagat aggaaactta ctacattttg 180
atgagttgta tcatattcta cgattgttta atatgaagat gtaaaatgaa agtgcctgaa 240
ttgaaacaaa gtgacaaatc tcaaatatgt attttccatc ttctgagtat aactccatat 300
atagctagta tgcttatcag aattgtccca tccagctccc attgtcttac caaacaagtc 360
tgcataaacc cacttcatta cgaaccattt cttaccttta atcacaagtc atccaacatt 420
gagactgcta gtgat 435

<210> 4040
<211> 515
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4040

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tgcaagaaaa aggttctatt aaagatgcac aatgggtgtg ggatcaaata attgtgcctg 120
cagtataaac ccattgaaga agaacatgct tgcattttga tgatgacaat tcacaatata 180
ttttgaagag accaacaatg acatcttata tggcagtcac agactgtaaa agatggcatt 240
ccatcggttt taatggcatc ccagattttg gatcttgtgt catttagttt aatttgactc 300

taacattaac tagtttgtaa tttaacctgc tatgtttatt aactattaag aaatacatta 360
gagccattac atgcaatcac tctttcataa aaaaaaatcc actttgttct ttgtctcatc 420
cctattgggg cataataaat tcccaaant gtaaggtttt tggattatca gatttaaaaa 480
atgcttaacc tgactattta agaataaaac tgtga 515

<210> 4041
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4041

agctttatga tcacacatca ggggaataga agtcaatcct aacaaatgca ctgctatttt 60
agagatgcac agtcctatta tcgtccagga agtccataag ctgaatggaa gactagcatc 120
cttgtgagac taaacctgcg aacaaccttt cttagccttc aagaagacca ttgtcacatt 180
gccagtccta agtcaaccta ggccaggagt acccttactc ctatatctct cagtagttga 240
tgaagcagtt agcccatccc ttttacaaga ggaagggaag caccagctcc ctatctactt 300
caccagcagc atactctatg atgccgagat gcgctaccaa atgatagaaa aggtggcact 360
aacactcatt acctcagccc agtgtctcag accctacctt taaagtcatt gagtggtagt 420
caagacgcac tataccctat caaacagggt ntgccaaagc ctaaact 467

<210> 4042
<211> 377
<212> DNA
<213> Glycine max

<400> 4042

ttgacagaaa tccgacatcg taacattgta aagttacatg ggttttgttc acattcacia 60
tactcatttt ttgtgtgtga gtttctggag aatggcgacg tcaaaaaaat ttttaaagat 120
gatgaacaaa caattgcgtt tgattggaat aaaaggggtg atgttgtaa aggtgtagca 180
aatgctttat gctatatgca tcatgattgc tcacctcaa tcgttcatcg tgatatatca 240
agcaagaatg ttcttttggga ttccgattat gtagctcatg tcttagactt cggaacagcc 300
aaatttttta atccagattc atccaattgg acctccttg cagaaccttt gatatgctgc 360
tcccggttaa tttcctt 377

<210> 4043
 <211> 519
 <212> DNA
 <213> Glycine max

<400> 4043

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 aacttccagg gcacaaaatt ccacagcaac catagtgcct atttagggaa tagagcccta 120
 gaagcagcaa agaggagcag cttgtgcatt gaagcctagg ttttgtcatt tgagagagat 180
 tattgagtag aaagtgagtg tgagatgctg agaaaaggag gaggaggaat ccccttctt 240
 gtgtaacgaa ctatcattct ctgcttttaa tctcatttat tgtaggggtt tctttgtaat 300
 ggctggctaa acaccctagt tggggatttc taatgaacaa ctgatgtaaa tacataatat 360
 ctaattcatt gtgttttctg tgttcaatgc atcattcaat gcttgatggt tggatgcttt 420
 tggctctgtca cccatttgca tgcatagtta agtgacttta gcattgggaa atgtattggt 480
 gccttaaaac ttgattgaaa aagattgaaa cttaatctt 519

<210> 4044
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 4044

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 cagactttaa atctggcagc caatccaatc cttgtgtgcg gactctcagc cacttatgat 120
 agccgccgat gctccatta ctgtttcccc taagctctct atcctttctt cacaccgcat 180
 cacatgcctt gtgaactcct tagagtaccc tcgcattggg gtcactgaaa ccccggtgta 240
 tgaaaggcgt gatgctttcg tctgatggca ctctctcat ggggtagcca agctgtctta 300
 tggcgaggac gggattataa tgaatacaac cccttggtcc atcaaggga catttgga 360
 tccttcgcat gaagatcgaa tcctgattct tccttccttc ta 402

<210> 4045
 <211> 987
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4045

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 tttcgtaa ac tatcttacgt acatataata aaattctaca cccnnnnncna aagagagatg 120
 ttgttgtagt ctctgtcccc gggcatcctt ttgatncgac ctgagagcat gcaagcntga 180
 aaagcatgaa gcccgtaaat aacttgtttg tttttataat atatacaa at ggcgtaacaa 240
 agttttggat aagatgaacg catctcgat atgatgagat cttagtcta gggcattgtg 300
 aagagctata aattttaatt cttcttatcc ttattccatg ccttggaacca atgattagct 360
 catgaattag tatgaaagat tattctttcc ctaaagcttc ttacaaaaac ctcacccct 420
 actttgaaac atggtcttgc aacaattgaa ttgaatccaa ttgccctcat ttggttaac 480
 gactgtccca agtcatatct catgaataga ggaaggttgc tatagcttga aagtaattcg 540
 atataacctca ctttgataaa tcgaataccc aacctccaga aaacacaaga aaaggctctt 600
 tggactgaat ctaaaatcga ttaccataga tgataatcct gtttcccagc cagcatagaa 660
 cgaactaata ttttgatatt gaaatgaatt aatactcacc ccttggtgaaa tcgatgaatc 720
 aggggtctgga atatcaaaac aaatggaatt tcgacaaata aattggatac ccattgtata 780
 atcgataaac ttcttttttaa ctggttaaac tactacatcc ccccatgcgt ttaaatttaa 840
 aaacaacact gaatgtgccc aaaattttacc gacacacatt ttcatagaaa tttcttaaaa 900
 acgaatagtc atctgcatta tggttgtaga attcgaactt gacacaataa tcgctttaat 960
 tgggagacgc ggtgatttca gggaccc 987

<210> 4046
 <211> 550
 <212> DNA
 <213> Glycine max

<400> 4046

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 aggatgaagt agggaaagtt ttggtcacia atcaagatat aaaaaagaga tctaagagtt 120
 attttaatat ttttataagc attttgatga tggactggga ttgactttgt aataggaag 180
 gactattaat gtaggaggac aaacagaatt tggcttacca ccgtagaatt cagattggag 240

tggtaaaata ggtccttaag aggatgatgg atggatagtg gtgaaatgat tggctctagat 300
 ggtattccta ttgaggtttg gaagtgtgta cgaatctcga gttaagaata ttttaagaat 360
 cttggataag actactattg aggtttggaa gtgtgtagga atctcgagtt aagaatattt 420
 taagaatctt ggataagact actattgttc ttgatgctca ttttaataat ataaataata 480
 gagtatttta tactaaggaa tattcttcat aatttgttcc cttatttgat caagagttca 540
 gtactaatat 550

<210> 4047
 <211> 555
 <212> DNA
 <213> Glycine max

<400> 4047

agcttatgac cattcgaatt tctcgagagt ttccgttggt caatttcgag cgtgtagatg 60
 agttatgtcc ccgaatcgga catctgtgtg aaaagttatg accattcgat tttctcgaga 120
 gcttccgttg ttcaatttcg agcgtctcga tatattatga cccgaatcg gacatctgtg 180
 tgaaaacgta tgaccattcg attttctcga gagcttccgt tgatcaattt cgagcgtcta 240
 gatgagttat gtccccgaat cgaacattcg agtgaaaact tatgaccatt cgaatttctc 300
 gagagcttcc gttgttcaat ttcgagcgtc tcgatataat atgttcccga atcgggcatc 360
 cgagtgaana gttatgacca ttcgaatttc tcgagagctt ccgctgttca atttcgagcg 420
 tctcgatata ttatggcccc gaatcggaca tccgtgtgaa aacttatgac cattcgaatt 480
 tctcgagagc ttccgttggt caatttcgag cgtgtagatg agttatgtcc tccaatggac 540
 attgggtgaa aagtt 555

<210> 4048
 <211> 612
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4048

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 caaaggaaga aagaaggttg tcttcgaacc cgagagattgg gtttgggtgc acatgagaaa 120
 agaaaggttt ccggaacaga ggaaatcaaa gttcaacaa tggggagatg gaccatttca 180

agtgcttgaa agaatcaatg acaatgctta caaagttgag ctgcccgggtg agtataatgt 240
 tagttccacc ttcaatgtct ttgatttacc tctttttgat gcagatgtag aatccgattt 300
 gaggacaaat cctttctcaag agggagagaa tgatgaggac atgaccaaga gcaagggcaa 360
 ggatccactt gaaggacttg gaggacctat gacaagggct agagcaagga aagccaagga 420
 agctcttcaa caagtgtgt ccatactatt tgaatacaag cccaagtttc aaggagaaaa 480
 gtccaaggtt gtgagttgta tcatggccca natggangan gactaaatga caccactttg 540
 tctcaatttt tagagtgttt agtttgtcta aataatggcc caatccttgt aaagttgctg 600
 accaaaaata tg 612

<210> 4049
 <211> 530
 <212> DNA
 <213> Glycine max

<400> 4049
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 tttgtttggt ccttgaagg tgcttggcac ccatcattag gcaatttgtg aaattccggg 120
 acatgccgaa aaacaaaaga aaatattgat gcacaatccg taaaggttcc gtgacacacc 180
 ggaaatcaaa tggaagcatc gttgcataat ttagtgaggt tccgtaacat tccgtaagtc 240
 aaaaagggga tgattctgta atccgcaagg ttccgtaaac attacggaaa gaaaacaagt 300
 atcgttacga aattcgtaag tttccgtaac ttacgaaaa agaatacacc aaaaaaaggt 360
 agaggggggtg tacttagtaa aaatgggggt gcaataaca accaggccca cttgggacct 420
 ccagaagatt cctccagaag gcttgtgctt ctggaggaag caaccctgct cgctgggctg 480
 agctgagctc gcctgggcca gctgggcggc aaacatctcc cttattttgc 530

<210> 4050
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 4050
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 gatttccacc atggagaagc agcggaagac aaaagaaaag aggggagagg aggcgccatc 120

cactaaggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataaaaa 180
gcttgtagag aagcttcaat ggatgaaaag aaagaaggag agaaagatag agggggggagg 240
cacaaaattg aatgaagaaa acaagggaga gaagttgaac tttgagttgt gtctcacaag 300
actctcaatt catcaaagat acaacaagtg ttacacatgc ttctatttat agactaggta 360
gc 362

<210> 4051
<211> 730
<212> DNA
<213> Glycine max

<400> 4051

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acaagatact catttgagat ctcagacaga aaaccagaac tttctatgtc aaatcacatg 120
gctcttggtg ttcttcatta tggttgtct ttttttggtg ccctttgggtt caaagcacat 180
ggcagtggtt tgaactagca agcgtaggac cattactaat aagttatcaa gcaatggacc 240
ggataggatt attagaactt tcgacgagct cagagaatca aattctcatt attaagtga 300
aaagacaagg cattattaaa tgtatagaca aagtactcga ggggtgtacaa gataatttgg 360
ccattatggt agatgaaaac aaatggacca cataaaaact agcattttca ggggtttctat 420
ttaaaaaatt cccatcttat tcaatggacc ccgcggcatg tagtaatacg taacacggcc 480
aaagtatcat caggtggtaa tttcttttta atttagtatt ttggggcaaa ttttaaatta 540
atattcctat gggaataagg tgtagtagat gtttaatat aaaattatca aactattatg 600
gaattttatt ttacttttta cgttggaaaa cgaaaaaaat tttatgaatt ttttaaataa 660
ggacttaaag gtataaattt ttttttttac gaattaaagg cataaaacat attttttttt 720
taaaaaaaat 730

<210> 4052
<211> 554
<212> DNA
<213> Glycine max

<400> 4052

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ggatcaactt gaaacttatg tgcttcaagt gagaagaaat gcttcttttt ccacttgtga 120
 agatgttcaa agtttggcta tgaagatggt tcaaactgag aaacatttgg tatttccatt 180
 ggtttataaa cttattgagc tagctttgat attgccggtg tcgacagcat ccgttgaaag 240
 agctttttca gcaatgaaga ttatcaagtc taaattgcgc aataagatca acgatgtgtg 300
 gttcaatgac ttgatggtat gttacaccga gcgggagata ttcaagtcac ttgatgatat 360
 tgatattatt cgaacattta ccgcaaagaa gtctcggaaa ggacacttgc ctcgtaattt 420
 tatttaaccc gctattgtaa gaatatgctt atctctttta ttttaaacta tatttttgggt 480
 gacaaaatga cgagtctctt ttattttgat tgattactat ttacatatta tatacaaggt 540
 gaatttgcta tctt 554

<210> 4053
 <211> 715
 <212> DNA
 <213> Glycine max

<400> 4053
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 tgaagaagtt taattatttt gatgcgaaac atgctcttac tccttatgac tcatccatca 120
 agttaaagaa aaatttgagt aaatgaattt ctttacataa atattctcaa agtatcggtt 180
 ctttggtgca ttgacaaaac ttctctatgc ctgtctgata ttgcacatgc agttggtaga 240
 ttggaaagta attgagggat ttagtgatat aaaattgaag ttctgatttt gatgaaataa 300
 aaatgagaag tggttatgtc ttgcttttag ctagttgtgc agtatcatga aaatctacta 360
 gacaagttat tatttcacat gaaagcaaaa attattgctt taaatactgc tactagttag 420
 gttgaatttc ttaaaaatgt attatgtgat ttgtcattgt taaataagcg tatacctcca 480
 attccaatgc atttgatag tcaaattgct atatctaaag tgacaagaaa aattttaatg 540
 aaaaaagaag acacttaaga gtgagacata agtctttaag aaattggatt tctcatgatg 600
 tcatttcttt tgactttggc aggtcaaaaa ataattattac agatccgctt acacaaaggt 660
 tgacctgtca acaagtattt gagtcttcga gggaaatgaa ataaaaccct ttatt 715

<210> 4054
 <211> 615

<210>	4055
<211>	917
<212>	DNA
<213>	Glycine max

accacaccat	acgtctgaag	tacttatcca	acttctttca	ccacatggct	ttacctctaa	60
acttacaaat	aacctctttc	ntcnccacag	agagggtgtg	acttcctcgc	ccgagcagct	120
taatatagaa	ctaccggctg	caagctcgtc	tcacctgcca	accacaaata	acctcgcatt	180
tgtatatacct	actgactccc	atcataatgc	gacgtgtatc	ctatccaaaa	cagaagctcg	240
taggttactt	taatgacatt	aactctctac	taggagggca	cacagagcac	aagcaataaa	300
ctagggcagc	taataggaat	acggaagagc	ccctatgatg	taaacaacac	tactgcctc	360
catgaaggga	gtctgacgca	acgaagaatt	ctacacgtgc	ccggttaaaa	acaataacttg	420
taggtcatat	caatcacaaa	tgacttacta	ccggaagtac	gagtgagtct	aatactattt	480
acgaaacttt	tcataaatga	acatgaagca	ctggggtcaga	ttcacaccac	aataccttat	540

tccttttatag ctcacgctaa cacctggatt ctaccgcgaa ccggcgaatg aaaatgcca 600
 tgccatcggtt acaaacaccg tacatgggtct cgatcatcat attgttgcaa acaacaacc 660
 cctcaaaatc gcaaaacatt aaagggagaa aataaccgt attcgtgtat gtaactgata 720
 ctaaaaagat tctccaagta gatcaccatt tatagagcct tctgctgacc ccctccacat 780
 tctcgaacgt catctgaaga gtctatacac cagaccgtat gacattattc gactacgaga 840
 aatcataaaa tcatcaggaa tagagacaac cggtagttaa gaagtgggtt cctacaaaca 900
 cctgtgctcc gtcctta 917

<210> 4056
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 4056
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 aagctattgt catttcaatc tgctcagagc ttctagtctt aattttgagc gtctcgatat 120
 attaccgat tcaatctgac atccgagtaa aaagctattg gtcccttgaat ttgatacgag 180
 cttccatttt caattgggat catctctoga tatagtacga cgctctgttg cgcacccgac 240
 taaaaagata ttgccgttag acatgggtcta agaaatccca tcttcatttg ggggcgtgtc 300
 catatatcac gggactgatc caaacatccg tgtatagtgt ttttggcttt ccaattttct 360
 cagatctcct attctaagtt gagcgcgtct ccagatgttt cccgattctt tcgcactatc 420
 gaataaaaa 429

<210> 4057
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 4057
 agcttatgca cggaaaatgt aattatgaaa ttgagatgcc tgaagaaaaa ccatttccta 60
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 atcccaacat ggttggctcg tggcgcttaa cacatgatac taagaatgta gtgtgaagat 180
 tcacgcttcc cctttttttg tttttgatct gcagaggaaa actcgtggat gagcaaacat 240

gaaaacctat gggatgcttt tgaggatata aaaaagttag aagatcacat atgcatgctg 300
 atgccatgac tcatgcgtta tgtgaagctg gaacatcatt accgagaaat ggaagacaca 360
 tccattttta tgt 373

<210> 4058
 <211> 310
 <212> DNA
 <213> Glycine max

<400> 4058

ttttggagta gaaacatggg accaactcat tttatttcaa aaaggaagtc gtatctagtc 60
 aaggtcttag agaccatata aggttcctac cgatttctaa ttatgtgggc cattaagtct 120
 atcatatgct gacaatagcc gagaagtcg tggatctctt cgggggcgga gtaagtgtct 180
 gccatgcct tggccttggc taacaatcgg ggaagttctt gactcccaat cctggaaaca 240
 gctaaccgat ccatccacat agttgccagc aggtgtaaat attatatcac cttttctcta 300
 gcctattttt 310

<210> 4059
 <211> 598
 <212> DNA
 <213> Glycine max

<400> 4059

agcttctccc ccaattttct ataaataggg ggagaagtga agtgaaaaag gggtcagccc 60
 cttaggcact tatctctctt tcgaatttgc ttggaaaaat tgtttctgtg aagaaaatcc 120
 aagccgaggc gcttctgaaa cgttttcgtt acgtttccgt gaggaatttc gcgaagggtt 180
 cgaccgttct tcgacgttct tcattcgttc ttcaccttc ttcgatcttc aacgggtaaa 240
 tacctcgaac caagcttttc gattcattct atgtaccgt ggtggtccac attgtgtttc 300
 gtgtattttt attctcgttt cattcacttt ttataccccc ctttgacgtg cttaagccat 360
 tttatttaag tcatttctcg cttaacctaa aaataatata aatttccacc gatcggttga 420
 attgtattat ccggttaactt cggttaaaat gaattccgac cggtcggtcg tgccgtaacc 480
 acgttggaat tcaaaaaaga ggtacaataa tattctcata ataaaaaaag acgtctttta 540
 ataaaaataa gcggaaaatc attcggccgt tttcttttgg gatttctcat tcttaatt 598

<210> 4060
 <211> 630
 <212> DNA
 <213> Glycine max

<400> 4060

tgccaccag ctcgccagg cgagctcagc tagcccaagc gagcagggtt gcttcctcca 60
 gaagtaacag ccttctggaa ggcccaagtg ggctgggtg ctatttgac cccattttt 120
 actaagtaca cccattgcc ttttttttg tgattctttt ttcgtaaagt tacggaaact 180
 tatgaatttc gtaacgatac ttgttttctt tccgtaatgt tacggaacct tgcggattac 240
 ataatcatcc cctttttgac ttacggaatg ttacggaacc tctaataca tccccttttt 300
 tgatttccgg tgtgtcacgg aaccttacgg attgtgcac aatattttct tttgttttcc 360
 ggcattgtccc ggaatttcac aaattgccta atgatgggtg ccaagcacct cacaaggacc 420
 aaacaaaagt tgcattgcat caagcaaagg tccccggacg aaactaaggc atgacagcgt 480
 gtaaatcctg acattgacaa aaactgccac acatggggca attttgaaag ctgtttaga 540
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 atgttaaagt aaatggataa agttgatatc 630

<210> 4061
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 4061

tgcattgttg ctcacgttat ataggagtc gacagttcta tcttttcagc cttcttacca 60
 tgtaataacg gatcattttt taagggtccat tcgggtcata agtgatcact ttttaagtta 120
 acagaacccc cagattcatc tcttaagatt gaactacgta ggtctgattt cctctgcaaa 180
 ggaggactct tacgatacat gagccccgct tttgtcgacc tccaaaataa gaataaatcc 240
 aagggtactgc cccacaattt ggacaatatc ttgctttgaa gctgctgttc tttgaaacaa 300
 agatgagatg ctctaattcc ttactcagtc gaaagtacaa ctccctacct gctaatttt 359

<210> 4062
 <211> 558

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ttcatcctaa	gcctaaactg	tattatttga	tttgatcata	ggaaaagggg	gaaaaagata	60
caagatataa	acatgaatac	aaataagaaa	ttgtaaacta	cattacttga	attcctatta	120
tatacaacca	gcataccgag	ttgaatttgg	ataatttctt	cccaccacca	acttcaacct	180
caagggggaga	attacaagaa	caaatggttt	agtgtcaaaa	aagatagcac	acagacaaat	240
taaaaaagat	agcctgaaca	gctactggag	ttctatgaat	atgtcttggc	acttaagatg	300
acctgccata	cttggttaact	gaattcatat	gattcatcta	catctgcaag	ttgtttggtc	360
ttgaaaattg	attatgcatg	gctgagttaa	caacaagggt	attatcacia	ccaacaaatt	420
gctgactaaa	tgccggagaa	acagtatcag	gcagaatagg	tagctcagag	ttaccaattg	480
tttgggtatc	agacctatta	cggataaaac	aaactcttgg	ctaaaagtat	ctattttgagt	540
gttaacattt	tgattaac					558

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<223>      unsure at all n locations
<400>      4063
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1733

<210> 4065
 <211> 463
 <212> DNA
 <213> Glycine max

<400> 4065

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 tccttcctga agccgagctc ccagcctggg ttgtttgtta cattcctgga atcatgtccc 120
 tcctaagtgt tctcccagct ccacggtcac ttccatttat agttccttac cttctatttg 180
 agaacactat gtcggtaact aaatttaatg ccatgatata tggattatta cgcttttgaa 240
 gttcttacga gtgggtggtt acaaaaaagt tgggaaggte atcagagaca gatttggttg 300
 cctttgagaa agaagctgaa cctctaatac gatctactag tcttcataga tcacctcag 360
 attcaggcat tgaggaacta agcaaactag aattgtcaaa gaaaactggg aagaccaata 420
 aaaatcgtct tttcaagaaa gaactttatc tcgcattaat ttt 463

<210> 4066
 <211> 586
 <212> DNA
 <213> Glycine max

<400> 4066

tcagtactag ggcttccaac aggatggcct ttaaaatttc aattgattct tttgcgtatg 60
 cccttggggc agcgtgcca ctgcttattg caatcttttt ctccgggttt tttgctggtt 120
 ataaagtctc ttctcttata accatgggtg gtgcttggtg acacacaaaa gaaagaaaat 180
 taggatcaat ctatgtttta ttttaatactc attgtacttt gattaattac ctaattaaac 240
 caggattatg catcctcgag gatggctatt ttacctaagc tagctaagtt gttctggcct 300
 tggccctcct tgtggatcta ataattttta gcttgaatat tgtacttacc aaaatccgaa 360
 gctagcacac ataaggggtga acgtggctaa ggtggacttc tgaacttcgc acatcgacta 420
 agagtgcact ttgttaggag gacaaaaggg ggacctgcaa aattaaggac ttcaacgctc 480
 aagtaaattt atgagttatg aaaataatag agtatgagta cacgagtatg aaaatgggtg 540
 tgcagtgtgt ttagaaatgt gttaagggtt caaaggaact tgttac 586

<210> 4067

<211> 630
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4067

agctttctcc actaagttgc ctgatgcttg aaatgtattt tctgatggca gtggtcctag 60
 atgcagggaa gaatttctcc aagaacaccc tcttaaggte atcctagctg gtaatggacc 120
 tgggagcaag gtagtacaac caatcttttg tcaactccctc cagagaatga ggaaaagcct 180
 ttagaaagat atgatcttcc tggacatcag ggggcttcat ggtggaacag acaatatgga 240
 actctttaag attcttatga ggatcttcac ttgcaagacc atgaaacttg ggcagcaaat 300
 gtattagtcc agtcttgaga acatatggaa catcgtcac aggatattga atgcacaagc 360
 tttcataagt gaagtcagct gcaaccatct ccctaagagt cctctcacga ggtggagatt 420
 gagccatgtt cttagtatga aaattagcag ccgaatgctc aaaatcagaa tgttcagacc 480
 aacaacagaa tgctcaaaat gcacagaatg attaggatgc acagaatgat aaggatgccc 540
 agaatgatca ngatgcacac tatgccttac taatatatga aagggttctat cttattcagg 600
 gatcaagggg tgtaaatac ctggattggc 630

<210> 4068
 <211> 501
 <212> DNA
 <213> Glycine max

<400> 4068

acactatcta gatctcaagc ttacaacata aactaccctc attctttgat tcatttaata 60
 taggggaact tattccaagg attaccaaat gaggaccctt atgaacattt ggcaacattc 120
 attgaaatct gtaacactgt aaagattgca ggtgtgccat atgaagccat tataactcaat 180
 ctatattcaà tttccttagt aggagaagcc aaaagggtggc tacactcatt taagggtgac 240
 aatctgaaaa cctgtgaaga agttgttgaa aagtttctga agaaatattt cctatagtca 300
 aagactgtga aagggaaagc tacaatctct tcatctcctc agttgcctga cgagtccttg 360
 agttaagcgt tggaaagggt tacaggtcta ttgagaaaga ctcccaccca tgggttcttt 420
 gagccaatta agttgaatat gtttatggac tggctgagac cacagaccaa gcaactacta 480
 tatgcttcat aagggggaaa a 501

<210> 4069
 <211> 511
 <212> DNA
 <213> Glycine max

<400> 4069

agcttgtaat tgattaaacc gatacgagag atttctctgt aagctagaaa catttatgta 60
 atcgattacg atcaatctgt aatcaattaa aatagaaagt cttaacttca aaaaaaatct 120
 tctaacttta taaactattc ctcttactcc tacaagatga tgcattgatgc acatatgaaa 180
 taatagagac taagatggaa cacacaatat aacctcaat acaaagcca ctcaagagag 240
 ttgggcatgt aaaagacaaa aaattttcaa gctcttcttc aagattcaag gctaggtctt 300
 tatgattctc cccctatcta taacaatctc ccccttttgg ctttgatgac gccaaacttg 360
 aattttccat ttgagtacat ttggagagtc ttaagagtaa agacttttct tagtcaaacc 420
 taaaactttc ttaacattaa gagaagtacc aattcatatc atcatcatta agtagagctt 480
 tatatgaatg tatgatgcca tggggtacaa a 511

<210> 4070
 <211> 441
 <212> DNA
 <213> Glycine max

<400> 4070

tatcgttatg gcctgcctcc ggacttcacc ccccggtcca ccccggaaga tttaagccaa 60
 gccctactt tcgaggggca gctccacct tatgaagact atccggggca agacgatggg 120
 gaaggagata cccatcttgg cccctgctc cacctcaaag atccatcccc gcatgaacta 180
 cccagccga acatagtccg ccatatcccg gcctcaccca caccgtaaa agaatttggt 240
 ccttcgtgg aagataaggg aaagattgag gcgcttgaag agaggttaag agcagtcag 300
 ggccttgga attaccatt ctggatttg gcggatttat gtctcgtgcc caagatcgtc 360
 atccctcca aattcaaagt accggacttt gataagtaca aaggtacgac atgtccgaag 420
 gggcatcttt ggatgtaatg c 441

<210> 4071
 <211> 586

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4071

agcttatcag gtaggcccac ctgctattac taatataaga ggcccatgat ttaggaagag 60
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 tctaagctca aggactgcat tttgtttttc ttttcatcaa atcctttgat tcccatagct 180
 atgagtaact aattccatgt ctgttgggtt tgggtgaatt agactacctt catctaattc 240
 ctgctttttt tattcaataa agcaattgtt attgttcttc ttttgtgcct attgcctttg 300
 attgatcacc taattacttg attcattgtg ttcaattgta tttggaaaaa tctatttgaa 360
 ctgtgaattg aagaagacaa tgaataattt ttatgcctag ggatagtgtg acaaggattg 420
 ttcatcgtaa aaacccttat ccttaatgca agtcgttttg ctacactttt caaggattgg 480
 tattgaagtc aaaggactta agttctctcg cctaaagaat taaagttagg ataaattgtg 540
 tattggtnat aacgtaatct caattgaata aagattattg gtaatg 586

<210> 4072
 <211> 634
 <212> DNA
 <213> Glycine max
 <400> 4072

tgaaggtaaa ctagatgcct tggtaacct ggtaacccaa ctggccatga ataaaaaatc 60
 tgcacttggt gccagactct gtggtttatg ctctatgct gaccaccaca cagacctttg 120
 cccttctatg caacaatcta aagtaattga acagcctgaa gcttatgctg caaacatcta 180
 caatagacct cctcaacctc agtagcaaaa tcagccacaa cagaacaatt atgacctctc 240
 cagcaacaag tgcaatcctg ggtggaggaa tcatcccaac cttagatggg cgagtccttc 300
 acaacaacat caacaataag attagcctta ttttcaaaat gctgctggcc caagcagacc 360
 atacgttcct ccaccaatcc ggcagcaaca acaacaacag cccagaaaac aacaaacaat 420
 tgaggctcct ccgcaacctt cccttgaaga acttgtgagg caaatgacta tgcaaaacat 480
 ccagtttcaa caagagacca gagcctccat tcagagctta actaatcaga tgggacaatt 540
 ggctacacag ttaaataaac aacaatccca gaattctgac agattacctt cttaattctgt 600

ccagactccc aaaaatgtga gtgccattac attg

634

<210> 4073
<211> 540
<212> DNA
<213> Glycine max

<400> 4073

agcttgggag ttctgagtc atgagggtac tcagaagcta aagggaatca ctaatagggt 60
ctatttccgc tgaatctttc gtctttgatt tttttttttt cttttcaatg gggtagagag 120
ggttttctct ctcaaaatcc aattttatct cttcacaaga gataaatttt tctatgatga 180
attgtcta attagagct atactaataa agaaattaga aacaaattga gcaatgaatt 240
tctaaatagg gcaaaagtta tggataagga atttatttct ctggatatat tagaaaacca 300
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gatattgaac agagagaaag agtggaagca ttttggtgcc tgttgtgaag atgataccca 420
caa atattct gatgcaagta gaataaaca tgtgaagcat tttctggagg tttaaactgg 480
ccgaaaattc ttaaaaccct tttaaaacac ttttagccaa gcatttttta gcgggttttt 540

<210> 4074
<211> 380
<212> DNA
<213> Glycine max

<400> 4074

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atccatcaag aacttggaga tacaagtaag acacttagcc aaacaaatgg ttgagaagcc 120
cactagttgc tttggagcta acatatagaa gaacccgaag gaggaatgca aggcgatgtt 180
gactagaagc caaaggagag cacaaggtga agaagagaaa gctgaaggaa accagtctga 240
ggatagaaag agcagactat gaaagagaga aagagaaaga agagaagaag agtagaacgt 300
cttaaccttt aagaccacaaa gccagctagc tcgagaggta agaaagaaga gccactagtc 360
cctctaaaag agctctcata 380

<210> 4075
<211> 791
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4075

agacgagggtt gaancctgag gccctcgcag aggcttcata atatgggaca gacaacccag 60
cgggattgac attaatcat taaaatgatg gtttttgttt ttttaagatc acaaactaac 120
ggggcggagg ggggattttt atttgaatta gacttccttc cattgaccat aaaattaata 180
aatattagtc aatattggaa tactgcctta ggtcattaat taattgaact caaaatacct 240
taaattatat tcaattacac cgtaaattatt gataaaacct aaaaaaaaaat catttaatat 300
ctgagcaaat gtaaaatcca ttgcttcaat ttttgattta tcacatgcaa ttcaacatac 360
atctcttaat aagaaccctg caactcaca aaaatctaaa aaatcgcttg ctgaataatt 420
cattgaacac caacactact ctttagctac acggtaaaac attcactgac aaattaaatg 480
tacgccccaa attataatag aagaaacact aaaatttctt aaaaacacat ttaataatct 540
cgaataactt ctaattcgct cccaatatca gatactcaca aacattattt atacaaaaac 600
actcttacca accatgcttc cgaaaattta tactccttac caattggtag cactcaatat 660
cttaacttac aaaaaattaa acctcatatc caataggcta actaccattt ataaacacta 720
ctaagtaata gtctatcatt ttatatacaa ggaagcaatc cctcttacac ataaactgta 780
caaccgtata a 791

<210> 4076

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4076

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catctttaa ttcgtgtcat ggtcacatat ttatagccat ttgatggctc ttgaggaatc 180
atgttaaaag ttgtgactct tggcaaaagc taatcacttt aaaagttgtg actctctggc 240
aaaaactaat cactttaaaa gttgtgactc ttgacaaaaa ctaatcacat acaaaagaat 300
tctaaggcgg ttagtccttt gaatgctttt gtataaggga aagggaagaa tcaaaagaat 360

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<210> 4079
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4079

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 atttgaagcc acaaagttca gcagaaccac aatgaacacc aggaaatatt aattgattta 120
 atacaaattc atctgcttgc gggagatcat tctatcagag cgaatcacia gccgatgaaa 180
 atgctaataa caattgggtg ggatcagata taaaataata caatgggttct tcaacaataa 240
 atcaagttct catcacatct tactttggca atccctcctc gagaagtcac ttcaacaaaag 300
 aggcgatgca aatctagttc tcttctcca acaatgggaa tcctgcaaca aaatttcaaa 360
 tgccacacia gtaactaana aggagttggg gggacatgct nttatgttac aaagttatgc 420
 aattaaagg cattaataat taggaggaga caatagttcc aaaaactaca aaa 473

<210> 4080
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4080

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 aagccgaggc gcttccgtaa cgtttccgtg agtgatttcg cgaaggtttt cgaccgttct 180
 tcgacgttct tcatcgttct tcagtcttca acgggtaagt acctcanacc aagcttttca 240
 attcattcta tgtaccgtg gtggtccaaa tttggtttca tgtattttta gtctcgtttt 300
 catttacttt ttatacccc ttttgacgtg cttaagccat ttatttaagt catttctcgc 360
 ttaacctaaa aataaaataa atttccaccg atcatttgaa ttgtatcatc cgtaaacttt 420
 gngtgaaata aattccgacc gatcggtcgt gccgcaacca cattggaaat 470

<210> 4081
 <211> 479
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4081

ctataattct cagcttggtc tctatagatc ttacacagca gaatctctca naactctctg 60
gaacttgga cttctctctc tagaaaccct agacacgcan agctctgaat ccaggtccaa 120
actccccctc tgaaatctga tttcaggctt aaataggtgg ccttgtttgt gctcgtgagc 180
ttaacacact tatggaccgc ttagtgacac ttagtgaatt tcggcttagc gtgttccttt 240
ctcgttagc aaatgaactg aagcggtgca cttagcgaac ctgtacatct tatcttcttc 300
cagagtcttc ctgcgctta gcccatgagt gttgcgctta gcggaggctc gctaagccag 360
cagattggct tagcgagaag gtgaanaata gcactttcca aagcttgctt aattaacctg 420
aaattgagag aacatgataa ttaaacaac aaaaaggaag tactaagtat ttattacct 479

<210> 4082

<211> 454

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4082

agcttcttat ccaaggctca tcttggtggt gaagctcctt ctttcatggc ttattcccta 60
gtggatggcg cgcctctta cctcttctcc tttgtcttcc gctgcatctc catgggtggaa 120
aatcaccatt aaaggacctc attgaagctc aaagatccag cttccataga agctccacaa 180
gcaagtttcc atcaggaatg atgcaatcct accccgcaag ggcattggat agaagactcc 240
aagtagattg ggctagagat gcaagagaag gccctagggg tctcatgagc cttaggatag 300
atttcggggc catgggctaa gtatgagccc acttatcttt gtacatatta gattaagggt 360
tcattaattn tgggtctttt atttaaggct ccataatgta ggaaggggtac cctagaaata 420
taggaatttt cagcccttgt attttagggc acct 454

<210> 4083

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4083

tgaacgaatg taagacacat cttcttcaac tntggtgatt cttgactcca tctcattgaa 60
 gcgcataatcc acttgtaatt ccaaagtgtc aaacctttca ccaacaaagg tttgaagaca 120
 atcaaacctg tccaaaatct ttgaaagaag agatgaatct tctccatcat gtccttcacc 180
 aacatgtcga gcaccctttt tcacccaaga gccatcatgc tctttttgat aaccaaagga 240
 tgctatgact gaagcgccta taaggaagga tcttttgatt ggaacatagg gttcagaatc 300
 aagaggaatg ttaaagtgtt gaaagaaaag ggtgactaaa tgtggatatg gcaatggagc 360
 attcaatcgc aatgccttat gcatgcgata tctaacaaga cgtgcccatt caatttgtag 420
 gcctttatga aaagcccaca taataatgag atcttcttc 459

<210> 4084
 <211> 416
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4084

agctnganag aacatttcct aagaaagtat tttccaatag gtgctagaca tgcaaaggag 60
 atggagtttc tacgactaat tcaggagaac atgactatga acgagtactc atccaaattc 120
 gaatacttgt ctagattttg cacctagact acttcaaaag aatggagatg ttgaaattat 180
 gaagaaggag aaagaattga gatacagaaa acaatcatcc cggtgactat tanagagttc 240
 ccaaagctag ttgaaaggat caagacagtt gagtgtcttg agtatggtaa tagagttgtt 300
 aggactcgtg aagcttgacc atgtggatta aggaaaagat tccagtagaa aaaacgtgca 360
 gtaggccccca agaccagcaa aagacaagat ctttaattat cagtagtatg cacaca 416

<210> 4085
 <211> 472
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4085

tataagaaca nnaatgcctc aatcatttcc aaatatacat gtgaattang aagcatcgac 60
 aagaatcaag ccaagactat ggtgcaagca atcaatgggg caaaacacac caaatgatta 120
 tgatgatgga tggctcaaat tctcaciaag gtaaactcat cactttcaaa ttgagctttc 180

aaaactatca tgacatgtag aggagaatca aggatttcaa gtcacaagat atcaagaaat 240
 tntatttttca aaacaattac ccattttcttg aacatatcct ataattcaaa gaaaaacatg 300
 caaagtcgta catgcacaca aaattgaccc aaaatattaa actaaaaatc cgacgaaact 360
 aacaaattaa caaattaaca caactaaca attaacaaaa ccaacaaaac tagcaaaacc 420
 aaagaacact cccccccata cttaaacaac acattgtcct caatgtagca ca 472

<210> 4086
 <211> 345
 <212> DNA
 <213> Glycine max

<400> 4086
 actttgaagc tatttaataa tgtttaatta tttaacaagcc tttgttcatg ggtggacaat 60
 ccttacaaat aattacctga ttcccttcta gttatttgaa gttagaatga aattttactc 120
 tgtagtttaa gcttaagttt aagttagtag atgaaacaag ccaatatact tgtttattct 180
 aaactactat cgttatgatg aattatttta attctgtcat gtaggtatat catgaattca 240
 attattacag tgttgatatt caacggaaga gtatatgaag acaatgatgg tgtaatatct 300
 gaaggcagta aaaatgcatg tcacaataaa cgcgaaatta gtttc 345

<210> 4087
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4087

atcctctaga gacacccgcc gcatgcaagc tntgcatacn ccaaggatcc attatgaaat 60
 tacttgtgaa agagagccat gtgggtgggt tcatgggcca ctttggaata gacaagaccc 120
 ttgtcttact caaagaaaag ttttattggc cccatatgaa gaaagatgtc cataagcatt 180
 gcactacgtg tgtggcttgt ttacaagcca agtctagggt gatctctcat gggctataca 240
 caccettacc catcccatct gcaccttgng tagacattaa tatggacttt gtncttgggc 300
 tttctagaac ccaaagaggt gtagactcta tctttgtggg ggtggatagg tgtagcaaga 360
 tggcacactn tataccatgc tacaacgtgg atgatg 396

<210> 4088
 <211> 245
 <212> DNA
 <213> Glycine max

<400> 4088

caaccgccc atagtcgggc agcgagaacc tgtaatgtac ctaagcaggc gagctcctgg 60
 cagtcaacag ataaaaggaa aacaagacca caaagcaagg aggcttgtgg tggctggcca 120
 gcttgtgaat ttgtataata tgtggattgt ggcctctggt aatcgattac taagggtggg 180
 taatcgatta caaggctaaa aattgaagac aggaggctaa gatggtctct ggtaatcgat 240
 tacca 245

<210> 4089
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4089

agctagtacc atanattaca accatgcctg tcattgtctt gatttaggag caataacaga 60
 atcatgaata aagtatttgt gcagttgaag ccaattaact gaaatgaaag caaatacaat 120
 tttctatttt ttgtttctca ttnttttaag ttttttctg ttgtagtagt tactttttat 180
 tgattcttgg atatcatgat gatgcttgt ataaacttgc tactatcagg tatgtctatg 240
 cctaccatgg aacaaaggga ggaattgtat gatcccttgg caatggcctg gtggaccaag 300
 cccgcttatt aattattata actcgatgc aatgtttttt ttattagaaa tcaactatcta 360
 ttgactggt tgtagtgtag gtgcttaaat tgaaacaatg gtgtgttatg tataaaaaaa 420
 atggattata catatt 436

<210> 4090
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4090

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tgaaagaatg gatatgcgtg ttgttgaaga agaaggagat tgggaatata ctgtgtgtgt 120
 tgtgaatgtg aagtgaaggg gatggaacat gaggctcgga acttggttgt gaaaatttga 180
 gggatggatc ttcttagtgc ctcaatagat tttttatttt ttctagccac gaggggatat 240
 ggatgaaatg aatttttttt ttttttactt ttacatacac tatgacaaac aattgtaggt 300
 ataagtattt ttgactttt acctacacta atttatgtgt gtaggcaaaa gtctccgtaa 360
 gtatatgtca ttnttcttgt agtgagggag ctatgggacc agcaaacct gcagataggc 420
 cagatcatga gggatgatg cccctatata tgatg 455

<210> 4091
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 4091
 agcttagaaa tcaagtgctt agaaatcaag tgatcaagtg atcattaatt ccaaaacata 60
 gggggagtat gaaatgagtg aatgtaacat tatactctgc atatactctg cttgtatctt 120
 gatttcagga attaaattgt catcataaaa aagggggaga ttgtagaaca agcaaagact 180
 ttgactttga tgttatgatg atgccatatg atcatgaggg tttgatatct tatgaaaatg 240
 cacttctcaa gtttaattca agacaaaaat ccaagaatac aacatacaac atcaagaaga 300
 tctctagtga tttaggaagg gaattccaaa ttgaaacaac aaaatgtttg gccaaagaaat 360
 ttaagctaaa atgtcttttc aagttattac tctctgcaat cgataccaaa ggatgtat 418

<210> 4092
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4092

tgttaactaa tcaatcgtat ttctgattct caattganaa agaaacataa tatttggcca 60
 agctatcact ggccaatcaa tcatccgac tctaacttat aaagaagatt cataattgat 120
 aaaaatgttg tactttaaat ggtagaagaa ttttaagttat aacttgccaa taagttaact 180
 gatctccaac gtataaagaa gattcatgat tgataaaaac actctaagtt atttagttgt 240
 ttaattttct gctagaagtt attgtgtcat tcatgtctat ctcaaccatg tactcttgta 300

tatggcgggtt tatttatatc gatcatgtca tttgtgtcga tttcatccat gaactattgg 360
 tgtcatggcg gtttatttgt gccaatcgtg tcaattctgc tagagttttc ccgatgatgat 420
 catgatcgtg atcattectt acttcgtttc ttattcgg 458

<210> 4093
 <211> 397
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4093

agcttgtagc anatgcaaac ggcaataaca ttttactcga atgttctatt tagtcacgta 60
 atgcatcaaa atgctcgaaa ttgaaaacag aagctcgggtg caaattcaaa cgacaattag 120
 tttttactcg gatgtccgat tgagtcctt catatatcga gacgctcgaa attgaaaacg 180
 gaagcttgta ctatattcaa acgacaatca tnttttactc ggatgtccga tggagtcccg 240
 taatatatcg agacgctcga aattgcaaac agaagctctg agcaaattca aacgacaata 300
 actttttttt cgaatgtccg atggagtccc gtaatatatc gagacgctcg taatggaaaa 360
 cagaggctct gacataattc tacaacaata catttta 397

<210> 4094
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4094

tcgaaattga acaacgtaag ctctcgagaa attcaaatgg acataacttt taactcgggt 60
 atccgattta ggctcatcac atatagagac gctcaaaatt gaacaacgga agctctcgag 120
 aaattcaaatt ggtcataact tttaactcgg aggtccgatt caggcgcata atatatcgag 180
 acgctcgaaa ttgaacaacg gaagctctcg agaaattcaa atggacataa cttttaactc 240
 ggatgtccga ttcaggcgca tcatatatag agacgctcga aattgaacaa cggaagctct 300
 cgagaaattc aaatggacat aacttttaac tcggagggtcc gattcaggcg cataatatat 360
 cgagacgctc gaaattgaac aacggaagct ctcgagaaat tcaaattggac ataacttnta 420
 actcggat 428

<210> 4095
 <211> 298
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4095

agcttatatg gaggctggat ctttgagctt caatgaggtc cttcaatggt gattntccat 60
 catggagatg cagcagaaga taaaggaaaa gaggtaagag caggcgccat ccactacgga 120
 ataagccatg gaagaaggag cttcaccacc aagagagtgc cttggataag aggcttatag 180
 agaaagcttc aatggaggaa aataaagaga gagagaggaa aagagggaga aaaagtgaac 240
 ttcgaagtat gtctcacaag actctcattc atcanagtta caacaagcat tacacatg 298

<210> 4096
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4096

ntaggatatg taatttatat tntatagttc aagacaagca aaatgaaaca ataactcaac 60
 tactgtgacc actccaacat aactattgcc actgaacaag ttacttcatg tttagaattc 120
 tgcattttat ataatcaaca tatgaaagat ggagaaaata ttgtaatttc atgacattaa 180
 cccacttgt ggtgattgat gtangtggtg attgagttat ttattggatt cttgcttcca 240
 tttgggaccg tgttgctcat catcacaggt acaaagtgtt gttaccgatt aattntttta 300
 ttacttgttc actgccatta aagacaacta atatttgata tacaaattnt gttcatgatg 360
 agagaacctt agattcccgt ttgagactga atgcaatgat tcttgacagac agtttgcatt 420
 aatcaatgta ttcaatcttg aattgg 446

<210> 4097
 <211> 303
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4097

agcttctccc ncattntcct atatataggg ggagaagtga atggaacana tgttcacccc 60
 tcctggtaat ttgagaatca cttgaaatta gtgaaacaaa ttgtttccgt gaagaacatc 120
 caagccgagg cgcttctgta acgtttccgc gggatgatctc gcgaagattt tcaaccgttc 180
 ttcgacgttc ttcggttcgtt cttcgtcgtt cttcggactt caaccgataa gttcccgaaa 240
 tcgaactttt caattcattc tatgtacgct tagttgtcct catttgtctt caccgcgctt 300
 tat 303

<210> 4098
 <211> 440
 <212> DNA
 <213> Glycine max

<400> 4098

agcttgtact gagattcttt tcttattaat aatatgccag ctaaaatatt tttggtacct 60
 atagtttggc aattgccagc taaaaaatac acgctcacac aaattgaaac atctaccccc 120
 tcccacatac caaccagtt atgttaatca taattaactt taattatgat gattatcatt 180
 ataaatacat aaatattata aaacagagga aagcagcctg gataccaggt tcttctttga 240
 ttcttgagag gtggttggca attttagcct agcaaacaac tcctggataa atgtactgtc 300
 atccttcaac aaagagacaa tctaaaaata atagagtaga caacaataag gacatcattc 360
 actaaattaa atgatatgtc tttattccta gttaatcaaa tcttagatag acctgaccct 420
 ttcaaacctc tttctcatac 440

<210> 4099
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4099

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 tattaagcca ctcaattccc tctaattggc ttgcaatcaa gtattatgtt gagctgaaga 120
 agtataatat taaaaacaac ataaaatatt attattattg agttatataa taagtagaat 180
 aaaacaatca aggaaagggt gatcatttga cttttcacca ctaaccacac aaacaacaca 240
 agagtagccg atcaciaaga anagagatat tcgtaggtca ggcacaaagt agcttatcac 300

aaggaaagga ggagacaaat cacaagatta aacttacctt tacaccatca tgtgtacatt 360
tcttctttat ctcctctcca aaattatcct ttcttatacc atatat 406

<210> 4100
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4100

agctngcaaa agacaatgca ataagggcct tatccatggg ctcttgcgaa ctccatccaa 60
caaccatgat gcacatggat cttcaacttg gtttctacat tagccaatta atataagtga 120
tgtggattgt tctacattag taggtccttg catgtcctta ttgccatata ttttaataat 180
taagtcactt tatttattta tcggagtttt ctaagttgtg aatcttgatt ccaaaacatc 240
aaccacatca aataatgatg aaaataaccc aaacatttga ttaattaaac gaaataataa 300
gaagatgagt caatcctttg cgatgggttac gataagattt caatgaattn tcatttggtt 360
atcatatctc taggatatta aaataacata aaaatcttat tatcatntng tggggggggg 420
gg 422

<210> 4101
<211> 469
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4101

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gcttcacgg cctaaatcca catggtctct gatgctgaag gagcgtgtgg cacaaatgct 120
gagtggaaag ggcaactttg gaagataaaa gtgtttgccca actatcgtgt ttttaattggg 180
tccttggaat aacctccatc tctctaatac ttcccttaaa ttaaactatg atgtataaag 240
tttttaggta agggaaattt gttaaatttt aaataattat tttaaaagtt tatatcaata 300
attattattt atttattatt agttgttaat acatatttat tcaactttaa aattaagaat 360
tatecttggtg ataataaaaa aattatcctt gttttattnt gttntgcaac aattganaaa 420
gaaacaaata aagaattcat gattntaaaa tatcaatttg aaccaattc 469

<210> 4102
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4102

agctnttcan aatatttatg tattttctttt ataaccttcc ttctctcttc ttcaacctan 60
 aagtttccaa aatcttggtc tcaaactcgt gactcttccc tcacgtcgat gatcatcttc 120
 ttcaagaaac gccgtctgaa cttgcgagcg tctatcgggt gcgggcgtag ggggacacat 180
 aaaattgcac ctgccagtca tgggagcagt tgctcgtatc catcacgtga cggagggtgct 240
 tgccggcgcg gaggatctcg atcattcctt ggatcgctga cggaatgctg tggtcgggtg 300
 aggtgatgta tgctgccgta tcccgaattc cctacgactt cccatgccgt atcagtattc 360
 ttaatttttag aagcacacca accatatatt ctcttctctt tgcattccat tttctttcat 420
 gctgacaaat ttaa 434

<210> 4103
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4103

tacgttacct atgaaaagaa taganattnt attgtttaca ttntgtttgt taaaaatcac 60
 tcatattttg cagaagaaac atcctacttg aagtgggtaa aatcactgtg catggacagt 120
 aaagttttct tttttgtatg gttctcaa at ggagggaatt agatgggtccc actaattttt 180
 caattattat tttttttttt tgcaatttgt taaagttttt gttaatttat gggcacaatt 240
 tattcacct cctaactctt tctgatgata ttacctggtg tacagtgaat ttgcggtaat 300
 tcccattttg agactgatgt tgaagctctt atccogaagc aatttttagtg aagacttctc 360
 canataatca tggactaaaa gtgtagctga gattcttaag ttcgcttttc ttttgtagt 420
 ctaccattgt taatctcttt tatacataga tttttt 456

<210> 4104
 <211> 462

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4104

agctntgtcc gcanaaatca ctaataaccg ttttaaggtc caacgcctta nacggccctc 60
tttgctttta tcgattaaca tggaccgttc aaaagcataa aatcaatatg taactttact 120
gcttttgcaa gaactacgta ggtctgattt cctcatcgca attgaggata tgtaggagca 180
aaagccccgc ttttgtcgac caccccaaga gatcgттаат ggttcaacgc cttaacattt 240
ctctcctttc aaaaacaaga gatcgттаат ggtccaacgc cttaacgttt ctctcctttc 300
aaaagaatca aagatcgттt aatggtccaa tgccttaaаc gacttttgtg cggttaaaat 360
cgatcttgcg aaaaaagatc aaaacaactt aactggaaat actgatcata cattagtatg 420
attaacatt gtanacacaa tcaaacaatt ttcaacaatt at 462

<210> 4105
<211> 415
<212> DNA
<213> Glycine max

<400> 4105

atgcaagtca attgtaggaa acatctcgga gaggatcttt tctgtgcata tttgcgcaaa 60
atgtcttgaa ctaagaagat gttgtccatc atctttctgt tcttgatgaa ggcagtttga 120
gtttcccaaa caatagtctc acgcactgtg gctatgcggt tggccaaaat tctagacaca 180
atcttgтatt acaaattaca gcaagatatg ggtctaaaat ggтtaacctg agaggtctga 240
tcatgcttag gaataagcgc aataataaca tggttgagtt gctttaaaaa tttgtcagtg 300
gtaaagaatt catttaccgg ctcatagata tcatcacaa tgatattcca agccttcttc 360
gaaaataaat cattgagacc atctggccct acagctttat tgтtatccat cacag 415

<210> 4106
<211> 323
<212> DNA
<213> Glycine max

<400> 4106

ttgtcagcta tgtggagcca acttcaactg tcttttgatg attttatgaa gcattctcga 60

ggctatgaag agtgtgttaa gagctccaaa tctacaaaca tggtagagaaa ttcattgttta 120
 ggtttaaccc tccctgtgag agtgacctac ttttgaattg ggccttcaaa gctcgcaata 180
 acttttagata caagtgtgaa attatgtttc taagtggaaat ccttctactg aggagaaaaat 240
 ctataatttg tgacgttgaa tcacacactc acttttctat aaagaccggc cgtggctggt 300
 agtggagaaa tctaattggtg tag 323

<210> 4107
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4107

agcttcaggc tgttcaattg ctccatattg ctgcacagaa gggcaaattg ctgtatggtg 60
 gtcggtagag gagcataaac cacagagtct tacgacaggt acatatcttt gattcatggc 120
 cagttggggt accagggttaa ccaaggcgtc tagcttacct tcaagcttct tagtttcaga 180
 tgatgcagct gagtttgagg ctacctcatg cactcctcca atgactatag catcatttct 240
 agcgctaaac tataaggagt tggaagccat cttctcattt aaattcctgg cttcagtang 300
 ggtcatgtct tcaagggtc caccactggc agcatctatc atacttcttt ccatgttact 360
 gagtccttca taaaaatatt 380

<210> 4108
 <211> 348
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4108

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 gtaactttga tgaatgagag tcttgtgaga cacaactcaa agttcaactt ctctctcttt 120
 ntcttcttcc aatttcatgc tccctcctct ctctttctct ctctcattct tttcctccat 180
 tgaagcatca tctccaagct tcttatccaa ggctcatctt ggggggtgaag ctcttcttcc 240
 catggcttat tccttaattg atgacgctc ctctcacctc ttttcttttg tcttacgctg 300
 catctccatg atggaaaatc accattaaag gaccccatg aagctcaa 348

<210> 4109
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 4109

agcttcttat ctaagggtact ctcttggcgg tgaagcttct tcttccatgg cttattctct 60
 agtggatggc acctcctctc accacttctc ttttatcttt cgtcgcaact ccatggctga 120
 gaatcatcat tgaagggcct tattgatgct caaagatcca tcttccataa aagcttctca 180
 agcatgcttt catacaaaat acacaaattt cttgtcgcta ggcttgatc tatggattat 240
 tggagttaaa tactccaatg caaaatcaaa ctttttcgct ttcaacacta aatataggaa 300
 aaactttcta ttcttcttgc ccaataagaa gaaccctcca aaaccggacc agtgatga 358

<210> 4110
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4110

gacactactg aaactcagct tacattgaat tgataattct tttataagag attgataata 60
 ttatgttgca caagtagtaa ttagaattta cgagtacttg tatttatggc tcgngaataa 120
 tagagccatg cgccatgtct attttgatac antttttata taatattatg caggtccctt 180
 aacgtgggta ctatatatgt atgggtactg gtagctatgc ttcctcatca taaatcatgc 240
 ttattggctg agattttatn tctcagatgt gcataattac caaaatatgg tgcaaaattt 300
 cactattcct tttgtttcct acttcattga cgatacttaa tattcttaat ttggacagct 360
 ctctttgttc cttctttttg cctaaaaaat tttaccatac atagacatag agttcattaa 420
 atctagcact gaccattatt acaaaatctg actggag 457

<210> 4111
 <211> 353
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4111

agcaagcttt	gtatattgcc	tctgtgctgg	atatagagac	tactttctac	tttctagacc	60
accaagatat	caagttggga	ccaacataca	ctgctgcacc	agagttagag	tgccatcaaa	120
tagggtctga	agcccagtaa	gaatcacaaa	aaccttacat	gggaagagtt	ttatgagggtg	180
aggcaagata	caaaataagt	cctgaatgta	aagcaccctt	aagatacctt	aaaattctttt	240
ctactgttgt	ccagtgggat	tcaagagggtg	cagacatgaa	ctggcaactt	tatttcaaca	300
naactaactc	tagatgagtg	atagtacata	ctgacagctc	cacaacagat	ctg	353

<210>	4112
<211>	413
<212>	DNA
<213>	Glycine max

<210>	4113
<211>	370
<212>	DNA
<213>	Glycine max

aagtttgcac tcgtctcgat atagcatttg tagtaggagt tctgggtaga tattttgagt 360
atcctggaat 370

<210> 4114
<211> 469
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4114

agctngtatg agctagagag agagagagag agaggcacat gcttgatgct cgtgtgctga 60
gcgtgtgatg gattgtgtag aggggttcaa tggaacctgt atttatagta attgaggatg 120
actgttggcc tttgtttgta ggggctattg cagcctttct agataattct aggcttctag 180
ataatagcca ggagcttaca tataatgtta gagataaaca tttacttata gataaaaggt 240
agaagataat tgtaccttgt agataatgtg tgagcttata gataattaat tatctgctaa 300
tagataagat attcaaatac atttgaatat tcataagtta gagatataac ctgtttgttg 360
gagagcccga ctactaaggg tcaatcgtct gtgctcctgt agtagggcta acattgaggg 420
tggaacacgtg tctttgcgtg tcatatanga tgtcacgtgt attntatgg 469

<210> 4115
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4115

gagctgcact ngatcccaca agagaaaaag cggtgcaaac aagcatcaca aaggaatctt 60
ctttggttct aatgtcccta cagcaagtgg ccaattcaat tccaacagac agtagcaaca 120
cccccaagat cccactgga aactgcctta aaatgtgtgc caaagaagtt cccaacacca 180
aaccaacac caatttggca acaccaagaa gtgccacaca ccaccactc cttccaccaa 240
atttgtattg tcttgcaagt ccaccagcac catggcaaca tggcattgca ccaaaccaac 300
taccaaccaa attcatcaac cctacactca ctgaaagtga agtggcagaa aattccctct 360
ctgggaacaa atcctttgac aacttgcaaa cagctatcac tgagttttaga attgacaatg 420
ggagctg 427

<210> 4116
 <211> 495
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4116

 atctcagagt cacctgcggc atgcaagctt ctaatatctc ccacactnnt tggngtgggc 60
 cattcttgga tggccttgat tntctcaggg tccacttgga cccatttct accaactaca 120
 aaccctaaga aaactatatt ttctacacaa aaagtacact tctctatatt tgcatagagg 180
 gtgtttttcc taaggactga aagaacttgt ctgagatttc ataagtgatc atctaggctt 240
 ctactgtaca ctaaaatatc atcaaaataa acaactacaa atctacctat gaaatccctt 300
 aagacatgat gcataagcct cataaagggtg cttgggtgcat tagtgagccc aaaaggcatc 360
 actagccatt catacaaacc aaacttggtg ttgaaagcgg ttntccactc atcacccttt 420
 ntcactctga tttggtgata cctaacttta agatcaatnt ttgaaaagat attggcacca 480
 tgcaactcat caagc 495

<210> 4117
 <211> 464
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4117

 ntgacttaag tcatacaagag attataaata tgtgaccatg gcatgaattt catatcatct 60
 ttctaaaaca tctctttcaa caatcaagaa atctatcttt caatcttctc tctcaacatc 120
 attcaacttt ttctatagaa ttttctgatt ctttttctct tcatctttct aaaagttntt 180
 gttcaaaaat ttctcttcta agaaaagttc tttgttcaaa aacttggtgct attcatcttt 240
 ttcagtctct tctcccttg ccaaaagaat gaaggactaa ccgctgaga attcttttat 300
 ggtacaagtt gaggtacat ctacttgggg attgttatac taagaacaag agaggttaca 360
 tctcttggtg atcagttcaa gtggagggtg catccacttg ggttttcaaa gagaacaagg 420
 gaggtacat cccttggtga tctttggctt gtaaaggaat ttac 464

<210> 4118

<211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4118

agcttacaca aacattcatt agtccaacac aactcaaca aatagtcac atccgtccat 60
 agtttcaatc aatcatgctc agtatgatgc atgcacctga cctcaactct caaatgcaat 120
 gtgagaccat cccaacgaa atagcctaag tgtgtccaca cgactctctt acttaggaga 180
 actaggcagt aagtgtcaag gttaccctat cgtgcaatgg caactcccc cttccccctcc 240
 cccccacgg tgatcagcct gagtcttaag ggagttccaa atcgagtgc atgcactgac 300
 ccagcttata ctatttccat gtcatatgaa gnatgaaaca agggcaccat caatgctctg 360
 accgtggata atataagata ttaaaccctc tccctctaga gatg 404

<210> 4119
 <211> 351
 <212> DNA
 <213> Glycine max

<400> 4119

accaaacccg ggcatactca gtccgagaga acctatgacg ttcctaaaca ggcgagctct 60
 cggcagtcaa ccaataaaat aacatagccc acgaagcaag gaggcttgag cggcgactag 120
 cccgctatat atcttgctgc gtatatgaaa attagtcgct ggcaatcgat taccattcgg 180
 gggtaatcga ttacaggggt taaaaatgga gacaccatga taagtagctt ctggtaatcg 240
 attaccaatt gtgtgtaatc aattacacaa tgctacctgc tactgcgaat cgatttacat 300
 atatgtgtaa tcgataacac aactgtatta gtagacttca ctctgcttct c 351

<210> 4120
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4120

agcttgtggt tggtgtggag ctctatattga agaacctaca taagatntgt tagaatgtcc 60
 tagaaaaaag tggttagtggg accagaatat gcattattat tttgtggtct ccagccataa 120

ggctaatttg aacatgagcc acctctgtag ccttgatagt ttccttgga gttctattga 180
 ggtcttgctt gattctatat ataatgggcc tctcttctct attgacaatg ctgaatagtg 240
 gccattctga tgggtgaccac cacagaagtc acatcttaga actcgttgaa cttgatgagc 300
 ttgggtgtgtt ttttgtgatc caccttattc atattgttga gggagttaac ctatctgctt 360
 gggttaaggcc tctatttggt gagacaagag tttgttctga gccaacattg catttagagt 420
 atcaactcca ttataccatt tctttgaatc ggagctctat catggtgact 470

<210> 4121
 <211> 484
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4121

cgacactatg aaactcagct tataagtgcg ggtctgggag acgaaggcca agtggtcgcg 60
 atatacgaag atgatgttct gagtacattg gatttggtac gaccatgcc tctgatttc 120
 cagctgggaa attggcgagt ggaggaacgc cccgcattta cgcaacgagc ataattgtaaa 180
 cctttacggt tttaaaagct ctatagttgg gcctaggatt tagagttttt ccttttggtta 240
 aggcctttgtg tcttttggtt ttgaatttat aatacaagga cctttcttca tctgttctta 300
 cgtctctacc cattctcatt catttgcatg tttacttctt tatttctgaa acggcatatc 360
 cgatgacgag tccccgaag gtactaatac ctgngaccgc cttatcaact tcgagcaaga 420
 aacgaatcan acggaagatg aaggggaacga ggaagtggga cttccccag aattagaaag 480
 gatg 484

<210> 4122
 <211> 459
 <212> DNA
 <213> Glycine max
 <400> 4122

tgcgcatata tggattcgct cattacttta taacagctta tgcattccaa gcgctacaca 60
 attgacctgg ccgaaaatct tttataaaaa tattcatcag cgtccaacac atctttttgt 120
 ccaactcgct aacaaaactt gtggaaatat tttatacttt catttaagat ttcttcatcc 180
 aaaaatgaac actcgatata ggtcttttct ctatgttggt cgaatgctaa ggggtatttg 240

tgcttacatt cttcattgta tgaaccttac actgatattc cttttcgttt ctttcaaaga 300
 tgctctaattg tctaaatttc aaacatgaag ataaaacaat tgtaaataata agcacaacct 360
 ctgatcacia taaagctaca caacgaggtt cagcacaagg agaagaattg aagtgggaag 420
 atgcataaat attgtatata ccttcagagg gtgtctata 459

<210> 4123
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4123

tgtactccat tgaatgcccc attgtgcttt tcatctgccc tctacttcc acaatcctgc 60
 tccccctcta tcttctctca natcaaagtc catagagtgc tctaactatg agaagcctat 120
 ttcaagctac atttcacttc cttcacttga aacacgatct ttgtcagatc tataactacc 180
 cctgttacia ccacaatggg ttaccactag aatgggtatcc tccacaattc ttactaaatg 240
 aatcttgtca ttgatcatta cccttaacga tgaagatata atctgaaggg acgaagtga 300
 caccataatt caagcatagt ctgctctcaa gaaattcttt gtttcttcat ctatgtcaac 360
 caaagctcat attccattga caatccttga taagtattct tcccccaact aacaaggga 420
 tgccatagca ctttacc 437

<210> 4124
 <211> 358
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4124

agcttagaga tgcaataatt taatataatt tactgtattg tacttagtat ctcataagta 60
 aactaaacaa cgtatcgaat catctaattc attaatgttt tattnttgta atatgtgaag 120
 gatcaataaa acataacaga caaggaagaa catttttcac gaacgaatga aaagaaacac 180
 ttatgtcatg ggatgatcaa cttaactacc ttagactatg ttaatatattg aataacttac 240
 gagacattta tgaactatta taattctact acttttaaac ttattcttgt aataaatgta 300
 agatgaattt aatttgtcta tcttatcata aggctctgac atgtttgttt gacttaca 358

<210> 4125
 <211> 356
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4125

gtactgaacc gtaccatgag acgtatgtcg tggtttgaga tctcctttct tcttttgcca 60
 cagtgcctcg atcctcctag tgtcggcatt tgtggaggag acgtgatgca attctacctc 120
 gcaagggcat tggatagaaa actcctagta cattggggcca gagatgcacg agaaggccct 180
 agggttctta tgagccttac ggtagatttc gggcccatgg gctaagtacg agcccactta 240
 tctttgaaat attagattaa ggtttcatta tttttgggcc ttggatttag ggctccataa 300
 cgtacatagg gtaccctaan atataggatt tttcagccct tagattgtag gacatc 356

<210> 4126
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 4126

agcttgagtt gaaatccacc aatgatggaa gatcagggtt cagtttttca tcatatgagt 60
 tacaatagat tgtgacattt agtatgtcaa gattcatcat ctaattgtta gtattgtata 120
 tgaatgggaa catgtggaaa attcgagttt attgctgtca gaatcaaagc agggagaata 180
 agtttggtta aaaaacaaaa atagtgtctat ttagtgaccc acttatattt atgttgtgac 240
 tagtgaccac ttactagtga cttcaggggtt gattacatga cttactgggtt ttcttggagt 300
 ttcaaaaatt atactaatat gtagagctgg caaatgacc tgacccgatg gggtgggctg 360
 ggccagaagg ctgcacatag ggtcatgatg ggctc 395

<210> 4127
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4127

tattatttta tattgattgt aactgtaatt agtactcacc aactttntac ttggactaaa 60

aaattattct ctctatttaa caccagtcca tcacaaagag taaacataca ttnttatcta 120
 attaaaaaaa tgattaaata tgttttttta tatctaaaag atatattatt ttttaagttaa 180
 tacatacttt tgggtcaatta ttaattatta aatacctgaa aaaaatttat ttttaacatag 240
 gacctgtatt actcttactc tgttattccg atgttccgta gctatttctt aatcataatc 300
 gntcatcctc tttgcaaccc agcttctacc ctttcgttcc tctntgcaat ccagcttcta 360
 ccctttcttt gatacagcga cctcgttgaa nacctatatt acatgaggct atgaagcacg 420
 gatacccaag tctctt 436

<210> 4128
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4128

agcttntana aaanatgact actttontat agttaaagca actcgtatct tccaattacc 60
 actaaataat ccaatctttt tacctaataa aagaaagaat taattacaag gatatgttgt 120
 atgatacaac taggcaacaa agaaagataa atttgtttca tctaacaaat tacaacaata 180
 ggtgggtccag tgatcaagag taaatttcag aatgacaact aacggaacta aaatgacatt 240
 cttttacaac taataatgag ctttcaatgc caaagttata gcctataaat tcaacataat 300
 ctatataaca tttataaaca ttattagaaa gaaccaaaaca caagtatgta agaccaaga 360
 ttcacagaat tgatgcaata tgaaagggat ggccacacct tttttaagag aacactccat 420
 gctctttgat tcaa 434

<210> 4129
 <211> 443
 <212> DNA
 <213> Glycine max

<400> 4129

tgtgcgaaga tccatgtata aattgcagct tttgggtgtca atccatgggt atatgtattc 60
 aagacatcct actatacata ccacaagtat aaaaggaggg ccaccagga cccacttcag 120
 ggtggatcct ctcttgaacc cggaaaaaaa ggatgactca tgagccctca ctaggcaggg 180

ataatgaata atgaaattga tagcacaaaa agatatttta catcaataaa acatgctaca 240
 ttaataaaca tttgaagaac ccaacgaacc cctcgaagga tatcaattac acccaagaag 300
 attttagaga cgccagacaa ggaagcagta tttcaccatt gatgaattgt aacttcaatc 360
 aaaacaaata tgctattagg gaggtaatga aacaggggtg tggccccctc cgaatagaat 420
 cgttgaacca attaccttga agt 443

<210> 4130
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4130

agcttgctgt gccatccncg tttcaaccta tacctattcc gggctcatat ccgtccctca 60
 acataaccg agccaccatc atagcgacac cagataagcg tggctacacc agaggagatt 120
 tcacataagc actactctca atttccagtg cttggaatga tgttttcaat gactcctctg 180
 cagcctcaac atacgacata gaagacaaac aacttaccaa tatgtcttcc tccccgata 240
 ctataaccag atgccttcc actacaaact ntaatttctg gtgcagcgtt gacgggacca 300
 ccccaaccga gtggatccaa ggccggtcta acaagcaact gtaggcaggg cttatgtcca 360
 ttatttggaa ggttatttga cacacgtggc gcttatggat gtgaataagt gtgtgggttaa 420
 cacttgatat gacaactac 439

<210> 4131
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4131

tctcccccaa ttttctataa ataggcggag aagtgaagt aataaagggt gateccctta 60
 ggctcttctc tctctttcga atttgcttg aaaaattggt tccgtgaaga anatccaagc 120
 cgaggcgctt ccgaaacgtt tccgtaagga atctcgcgaa ggtttcgacc gttcttcgac 180
 ggtcttcatt cgttcttcat cgttcttcga tcttcaacgg gtaagtacct cgaaccaagc 240
 tttttttatt cattctatgt acccgtggtg gtccacattg tgtttcgtgt atttatattc 300

tcgtttcggt tactttttat accccctttt gacgtgctta agccatttta ttttaagtcac 360
 ttctcgctta cacctataat aaaataaatt tccaccgatt cgttgaattg 410

<210> 4132
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 4132

agctttattg cctaacaggc caacttacia tatctagccc caagagactt atcataagga 60
 tgcacaggcc atagtggagt atgtgaaaag attgtatgac caagtgaagg tgcgaattgc 120
 taagaagaat gaaagctatg ccaagcatgc caacaagaaa aggaaggaag tggacttga 180
 acccggtgat gatcctggac atttgagggc aaatgttatc caagaaggaa ggaatgatga 240
 gaatcctgaa attggccaaa tgcattgctaa aggcccaagt ggagaagggc aaaggcccaa 300
 gtggagaacg acaaagcccc cgagtggaga aagatgaacg cccatagaca aaggctctac 360
 caagactatt aatta 375

<210> 4133
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4133

tanaagaata cttaattaaa caacttaaga gtgaagtaga aacacttggt ttatactggt 60
 tcaactcaat agagctacat cccagttctc ctttacataa ttgtaaaggg ttccactaat 120
 caaaactttg attacaaaca agtattcaat cctgccactc ctgattgtac aagtattctc 180
 tatgccactc ttgttacacc cttagactcc cctgaatct aagaacaccc aagtattggt 240
 taactctaag ccactcctag atttcacaaa caaaagtttg aatgaatata atgattcaat 300
 aacactcata gaattcataa atagttaagc taaaagggtca agttcaatta acaactcatt 360
 agttcatgaa caatntatac ttttgtaaac atcaaaatcc aagggtatgat aaacaatata 420
 aattntgact aagataaaaac ataatacat 448

<210> 4134
 <211> 265

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4134

 agcttncaca acatctaagc aattctacat cctacacatc atgaactatc aaaaccaagg 60
 aaaacaaggc agaggcggaa aactcagccc aacacaaacc aatatacaca gttttctcac 120
 ttaaagaccc cagtaacatt tccttcgttc caatatgttc accgatggat cgactcgaag 180
 actactggaa gtccttagtg cataagtcta catcttgacc attgggatct actaaaagat 240
 ttccagaacc ccatctgtac tactt 265

<210> 4135
 <211> 269
 <212> DNA
 <213> Glycine max

 <400> 4135

 agcttctaata aatgaaagtt ataataattga accatgaact ctgcttgcac gaatttggtt 60
 cggagaacaa gaagagaaag acaaataaca ctggcttaac gtagcgcgtg cttctgttgg 120
 atcgcgggct taacgcgcgt gttgcaagct tagcgcgttc ttatgttgga tggcaggcct 180
 atcgcgcgct tctggtggat cgcgggctta gtgcgtgacg cgcgctcacc tatctttgca 240
 aataataaaa cggcagtatc ataattaaa 269

<210> 4136
 <211> 427
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4136

 tctcccncaa ttntctataa atagggggag aagtgaagtg aaaaagggtt cagccccctta 60
 tgcacttctc tctctttcga atttgcttgg anacaatgtt tccgtgaaga aaatctaagc 120
 caaggcactt tcgaaaccgt tccgtaacgt ttccatgagg aatttcgcga aggttttcga 180
 ccgttcttcg acgttcttca ttcgttcttc gatcttcaac gggtaagtac ctggaaccaa 240
 gcttctcgat tcattctatg taaccgtggg ggtccacatt gtgtttcgtg tatttntatt 300
 ttcgtttcat ttactcttta taaccncttt tgacgtgctt aagccatttt atataagtca 360

tttctcgctt aacctanaaa taaaataaat ttccaccgat cgttcgaatt gtattatccg 420
ttaactt 427

<210> 4137
<211> 474
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4137

agcttgagct gactctatct tggatcattt ttatcagggg ttatattggc aacttggcat 60
aataatatgc atggaattat gttttggctg atggccatgc caaatatttg cccacctttt 120
atctgtaaaa agtttggtat ctcttattct atcgtatgag tacatggaaa tttatagaag 180
tttagtgatt cagtcctttt attaaatttt cttttgctac tcttgaacaa aatatatgtc 240
attatcaaat tgggtacaagg tagccaaaag atcctacctt ggattggatt agaaaggcag 300
agggaacact taagttgtgt aataatatgg acagtatgtt cctgtctaaa atacaaaatt 360
atatccatac ataattnttt gtgcataact gcatataaca taaataagaa ttgtactaac 420
atthagttaa acatacactg aaagaggata aggtcacact cacatatgac ttat 474

<210> 4138
<211> 392
<212> DNA
<213> Glycine max
<400> 4138

tgttgaacct ctcccattac tcatataatg tctctccaag ttgttgctt attgatgcaa 60
gctccattgg agctttagg cctaggatct tcttcatcaa tggattcctt tgcttcttgg 120
aagatgaatg gcagtgaat gaagaaggaa gagagagagg agacgccact tcaaggagaa 180
gatgagtcta gaagaagctc accaccatat gaggccatgg ataaaagctt ggaggaagaa 240
agagatgaat gaaggagag ggagagaaga gcacgaaatt ttgtgctcca aatgagctct 300
gaaatctgaa gtttaattatt caaatgatca aagttgaaaa aaatgcacac acatgacctc 360
tatttatagc ctaagtgtca cacaaaattg ga 392

<210> 4139

<211> 168
 <212> DNA
 <213> Glycine max

<400> 4139

ggtgagagtg agatcttaca gtgtgagtga acgactctct gtgagcaata atctttgcat 60
 gaatctctga atcgtagacc gaaacgtttag atgaggacaa gattacggct atgaatgtgc 120
 atacacaagg gttatgccct ctttgcttac ctatgaaaac atgtggat 168

<210> 4140
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4140

aatgtcaaag aactgggtgt tgaaaaagca taacaagact ttctgtgatt ggtttaaaga 60
 tacaatcttt gcatgtgaga atgcttcaga aacattaaga aagctagcag ataggcctaa 120
 aagaaatggt ataacttggc aaggatacga cataaacaag tattcatttt acacaaaagc 180
 acaagatgag aaaagtacaa tgcagaacag cggagtcacc ctaagggctg aatctcaaca 240
 cttcgcaagt gtgaatgaca ccaatccctg tgtagcttcc atcccttact ttgggttcat 300
 tgatgaaatt tngagctta actatgtgaa atttactgta tgtattttca aatgtaaattg 360
 ggttgatagc aacaccggtg cgcacaccga tgatatanga ttta 406

<210> 4141
 <211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4141

agcttaacat cagaccactt ccagggtgct ggaactactt cacatggatt tgatggggcc 60
 tatgcagggt gaaagccttg gaggaagag gtatgcctat gttgttgtgg atgatttctc 120
 cagatttacc tgggtcaact ttatcagaga gaaatcagaa acctttgaag cattcaaaga 180
 attgagtcta agacttcaaa gagaaaagga ctgtgtcatc aagagaatca ggagtgaacca 240
 tggcagagaa tttgaaaaca gcaggttcac tgaattctgc acatctgaag gcacaccca 300

tgagttctct gcagccatta caccacaaca gaatggcata gttgaaagga aaaacaggac 360
 tntgcaagag gctgctaggg tcatgcttca tgccaaagaa cttccctata atctctgggc 420
 tgaagccatg aacacagcat gctacatcca caacagagtc acacttagaa ga 472

<210> 4142
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4142

tctgatagct ggttgtaatc gattaagaca acactgtagt cgattaaaac aaagtttttg 60
 cctctgaaga aacttttcta acttagaaat gtttcttcac actaaccatg atgatgcatg 120
 atgcaataca gatattaaat ttactaagac acaataacca aggtaacaac caatataaat 180
 gccactcaag gaagtggggc atgtaaaagc caaaaacttc gtcaaaactt cttcaagctt 240
 ttccttgagc ttttaagcttt agccttttagg ttgttcacca tgttgctcat gttgcttatt 300
 tcatgttgct cccctatct ctaacatata gtagtttttc attntgacaa ttataatacc 360
 aattctctaa atagctaagc aagtaatatc aaagctatac tacacactnt ntgataaatg 420
 tcattcttct gaaattntaa tgggttgtag tcggagatta tacta 465

<210> 4143
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4143

tagcttgacg agagggtggt ttcataact catgctntga aagatattgg cgtggattat 60
 ggagtcactt tcatgacata tgaagtcagt gtggatgtgc atgatgagct gtccggcatg 120
 cagaacacgc gcgatgaaga ttacaatgaa aagaaacaac ttccttcacg ctcaaagcca 180
 gaggcagata cagttgcacc atagcataga cctaaagaac aagaaccaca tggttttcat 240
 gccaaacaag ctcaaccac tgcgacagct acgtggatto cttctaataa gggctcttat 300
 cacgattcaa tgcacgtctc atatccacca tcaagaaata ataattcacc agctaactt 360
 tcagatgtta cctcatcaaa ggagagaatt actgatgcca aaggaaaagc tatttctggn 420

tcttatgtct ctgaagcaat tgcttccatg gacatgagaa atgacct

467

<210> 4144
<211> 476
<212> DNA
<213> Glycine max

<400> 4144

tataacacta agctggacgt cctgctaaat aaaattaatc tgatgcggtc aacattactt 60
cacatgtaga aagtaatttc aaaaacacac atagctataa aaaataattg aattacgaat 120
aatgtatttc taagtaatca tgtaagtgtt agttgtcaca tctccctgc tgtagcctat 180
aaagactaat tcttagtaat tgtgaaagta attaaaaact cttaaaaaat cctatggtaa 240
ttagatacgc attttctagt tgtagctgac taacaggtaa gttacaaata ttactaatta 300
tgatttgaag catcccatgt tctggtttga atttggttta tccttagttt aacttctcat 360
cttgctctta agagaagtgg aaagtcttta ctaagaatcg tatacatgca ctcccaccat 420
ggcttcaatg tatccccaac atgaattcta ataacaacct tatattattg attaac 476

<210> 4145
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4145

agcttagaca catttagcag acaaggatgt ccaccaataa atataattgc caggaacatt 60
taacttactt gatttcttgt aagtgtcacc agcattgctt cttgaagagg acaacactgg 120
atcagcgact gatgtttgcg aggctagaga tcgaattaca ctacaattcc tctagctagt 180
gcagttactt cttctcgttg acaagccatt actgctgata aaatccctag acaccaatct 240
tactaaattg ttttgatgct cttggtgatg atttacatta ttcagataag aacgggactg 300
caaagtacca atagcctggt aatatacttc agcagccatg gatgaagaaa cattatcata 360
gaggatgaag atacatctta cattttggat cccaggaata tcaacagggt ggattccagc 420
taatcctttc gtgagtaatg cttnnaaaat aacaaatatg 460

<210> 4146
<211> 447

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4146

agctcataaa tgtcttttct gtgattaact ccatcaagtt gtgattgata aatgttttac 60
 ttattaaaag taattntcta gtctccatag tatacacttt taaatttttag tccttaacgga 120
 aacatctcaa ttttaatcct tcaaaaataa gacttttcac ttttggttcg tgggtgttga 180
 ctttaatcct aagaaaaatc ttcagcagcc aaattttctg tagccacaga ggatctgcgt 240
 tcctttaatc ttagtaattn tatattgaat tagtccttct aatattntaa ttgaaaaata 300
 atatttttca ctactatnta acttcatttc ttaatcgat tgacattcta gtttaattca 360
 aaaactgatt ctaattctca ataactgaca aaaatatagt ggtgagaata tcggcttttg 420
 gatgtanata aatagtcact attatga 447

<210> 4147
 <211> 200
 <212> DNA
 <213> Glycine max
 <400> 4147

agcttcgtgc attgcacaca cactattaag agtgcaagac cattaacagt cacaattgac 60
 actaaacgta aggagctcga catgaatata tacctttgtg ataatgactt ttttattaaa 120
 tttgtctatg aacaaacaga atttgaccg atttacattc cacaagcaat attaataacc 180
 acgtcgcgcg attgtgacgg 200

<210> 4148
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4148

agtctattac ttntaatcag gatttctttg ggaatatttt ggaggacaag aaaagattga 60
 aaataggctt aaagggtgtt aaagatctcc ggaaaggatc gattctacaa gattagttaa 120
 tcttgaanag caactccaaa gagattatga ccaaactttg tttcaagaat tgctccacta 180
 tcagaaatct tgagaaaatt gcgttaaact tggagatatt aataccaagt tcttccatgc 240

ctaaactggt gttaaaagaa tgaagaacaa aatacatggt ttgttccctc ccagaggcaa 300
 atggtgttta gatgattaga ttttaaagtt tgaagcttag aggtactttc aagctcactt 360
 ttaaattctc ctgtgcaggt gtgttctaac cttantttctg ttaataacaa tcccaaataa 420
 aataggggag aatgaaattt gg 442

<210> 4149
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4149

atgcgagacg gagaccaaca tgctagctat catcgccaag taccaagaag agttaggtct 60
 agccgcggcc cacgagcata tgattgcgga cgaatatagc cggaaaaaga ggctagagga 120
 aggggtgatcg actctntaca ccaagaggca accatgtgga tggatcggtt tgctcttacc 180
 ttgaacggga gtcaagaact tccccgattg ttagccaagg ccaaggcgat ggcagacacc 240
 tactccgccc ccgaagagat tcatgggctt ctgggctatt gtcagcatat gatagactta 300
 atggcccaca taattagaaa tcgttaggaa acttgtatgg tctctcagac cttgactaga 360
 tacgacttcc tttttgaaat aaaatgagtt ggtcccatgt ttctactcca aaaagcttgt 420
 gcaaatcaag tcacttccgc attttatctc t 451

<210> 4150
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4150

ttgagccana atcctgactc accatanacc ttgacccagg gtgagaatgt caatccttac 60
 cctcggaagc ggaaagaata gaagggaat ttccaatcaa agaacaggaa agaaggaaga 120
 tttccaatca aagagaaagc aaaaaagaa aagaaggaaa attccccaat caaagagtgg 180
 gagaaagcaa aaagaaaaga tagaaaattc ccaatcaaag aatgggagaa agtaaaaaag 240
 gaagaagaag aaggaaagac agctcctgat cagggatcga aggaaaacag aagaaatgtg 300
 cagaaaggtc tttgaaccgg acaatatctg aacaatacag aattgtcacc aaatgaacaa 360

aaagaaggaa aggaaaccac gacctanaat ggtcttctcc ctttgattac

410

<210> 4151
 <211> 455
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4151

agctntgnng aattcagatt attggttcat gacaacttca aagcaaataa tcccataaat 60
 ttcagttgat ttcaaaagat gacaaattaa gttactcaaa gatggcgaca gaaatccctc 120
 cccattactt ttcttgcctt tcacatgctg gaaaccgaga caagaataag attaacaaca 180
 aatcagagc caataattct gtctacattg agaatgttgt cagttaaaag ctttcattgg 240
 caacaaaatt acaaggttgg atacgaaatt attttggcaa ggcacaccat atgccaagtt 300
 ctttacacaa aaagtnttag ttgaatttcc aaagattgta cataaatggc taaacaaaaa 360
 gtcacatag aatgtaatat atgagtctaa caaggtaatg ttagtaccat ttctttacat 420
 gagaagacta cttcagcaat ctgtaaacna aacat 455

<210> 4152
 <211> 411
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4152

tgctattcga atggaacccc caaggtcaaa ctctaaactn tccaaccatt ttccttcttc 60
 ctcccttcta gttnttttat tttttttttt atttttttat gcagctgaat agtgtgcttc 120
 atgttatgtt tttgcagagt tgctgtggat aacatttcaa gcggaacaga cactgtcata 180
 aaggttccaa attcaccttt cgttggcttt gtcttttctg cattgccaaa gggtcctttt 240
 tctctttgtg tgaccaattt tccgtgtgtg ttgttgcagg ttgatagcgc gaacaagcgt 300
 gggagcttgt tggaggtggg tcangttctc actgatatga atctcagtgt tagaagagct 360
 tatatttcct ctgatggaga atggttcatg gatggtacgg atcccttcac g 411

<210> 4153
 <211> 399

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4153

agcttggaag aatatttcat gattctatag aagtcaaaaa tgtaattat tgtgggttaa 60
 aaaaatgatt atgttcaaac ttattagaat aaattaaaac attccgcata agctacttaa 120
 attaagctaa gctcaaataa attaacattc tttcatagcc tctttcattt tagttccata 180
 agttctacca aacttatatt ctcttttctt tttctatctt ttcttatatt atactttatt 240
 tcttctatta aattattatt atttttggcc gagacaaagg cagcgcttga gaaaaaaaaat 300
 tggaagatca aaataattaa aattataata tataaattaa atgtaattat tatgataata 360
 tcgtctctta tgagtgattt taagcatctc agctatttc 399

<210> 4154
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4154

tcacctttag gtctctctca tagttgttgc atgagaaaac atgctctatt ttcattctccc 60
 actccaagta ggcttcgga tcattctttc ctttaaattg aggaatgttg agtttaatac 120
 catcaatttg gttttgtcta ggaacacccat cattccctct tctctctctt tcttcttcat 180
 tatgatctct attctccatt tgatccaacc tctcatggag cgcattctct cgttgtttca 240
 ttaacctctc caaatgttgc atcgaagctt gcatttgga ttgcgaaagc cccactccat 300
 cattaggatt agtacctgac atctcaaaca aacaaatcaa atgtaacaag acaattatag 360
 ttgttggttg aatactcac ccaactcaagt gtatcacaca attatggctc ttctctaattg 420
 aaacactctt gccttntacc actctaattc ccc 453

<210> 4155
 <211> 148
 <212> DNA
 <213> Glycine max
 <400> 4155

cgcttgaaac tcaacgaata gcttgattaa cttgtttgaa gaaattgtgg ctgttacatg 60

ccccactccc tggagtgaca attgtattgc ttgctatddd ggatgatgca tcatagtaca 120
tattgatatc tcgagcagca ttgctcat 148

<210> 4156
<211> 468
<212> DNA
<213> Glycine max

<400> 4156

atactcaagc ttcttgagat gcctttcggg aatctcccaa atatgatgaa attttcaaac 60
tagacacaat taagagagtg tctctcttgg ttcttatgtg aaaccttagg ttcttatcaa 120
agaattctat tctttgtagc gaatcctcct caacttatca atctcccaag attgtggcgt 180
tgctcttttc atcaccttct ctaactcctg tttttccctt tcttttcccc aaaagagccc 240
caaattgggt ccacggtttg ctgatgctaa aaattggatc cgcaaatcac ggttccatca 300
cattgcgtgt gccaattttg ttgttgtagg aaatcttaat gcttaactaa aatgaattta 360
gctataattg ctctaacaca attctaaaat ttgaaaagtg actcaaggat ttagttgtca 420
agacggaaaa tccgcatctt gacttgagtg tggactctca agttacta 468

<210> 4157
<211> 333
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4157

agcttcttat ncaatgcact ctcttggcgg taaagcttct ccttccatgg cttattctct 60
aatggatggc acctcttctc atggctgaaa atcaccattg aaggatctca ttgaagctca 120
tagatccaac ttttatagaa gctttctcag ctagcttcca tcaagcgtac cttgcgattt 180
gtagatgtga gtaccaaggg tagaccttgt gtctgttata aacctatatt cctacacaag 240
ataaagttaa gaataggaaa tattgccaat ggtacacctt gcgtaccttg agttcctgtg 300
gaggtggaac tttagtaata tgaggctttc acc 333

<210> 4158
<211> 408
<212> DNA

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

gggagagttt gatacaattt atataagttt tatacacaaa agttagtcac tttcaccaac 180
 taacagttgc cccaaattta cagttttgct tgtcctcaag caaaaagaga acaactcact 240
 tgtcctcaag tgacaatgac atgcagtgat tatgtacgaa ggtgtatgct acaaagtgac 300
 taattgcatg ataagagaat ggagtaaaat gccctcaaca cttgtctttc acaacagtta 360
 tctatagaca agaatanat gtaacctgga cagatagatg aagntaggca taagacagat 420
 at 422

<210> 4161
 <211> 475
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4161

agctntagca acaacatgct catctccaat gactaaagcc acgacctctc caacgatgga 60
 agagaatgta gcattcaaaa atctgcaatt ggatgagttg atggaaatgc tcagacaata 120
 aaagatagtg gtcaaggagc aacacaaatt gattgcagat ttgtgaacgg gaaaagaaga 180
 tatgtagaac aaacatttga aagctatcaa atatgaagta gattcgaagg caaagaanaa 240
 gcatagcaaa aataagatga gcaagttgaa atcacaaatt ccattgaagt ctatgaaaat 300
 agagtctcca atcactgtca tcacgaaagt agaaggagaa gtggattatg atgaaatcat 360
 tcctttcaat atgccattct ccaagcgctt aataaaaatt taggttccaa aacaattatg 420
 gcaacttccg acagtggatt tgtacaatgg atctactaat ccgaacgatt attta 475

<210> 4162
 <211> 463
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4162

tccatcaagt ggtaatcaga gcacaagagc ttcaagtagg tgctcctnta aacctccatt 60
 aatttttttc tttaccttct ctccatttgt tgtttcttca tttttctcca tgtatctct 120
 cacatgtctt gttctaaata ttgttaacat gattcttttag agtttccacc gattaaactt 180
 gctatagaag ttagatttga ttttctatgg ttcaaatttc ttgttcttag ttcttgaacc 240

atgaattgtg ttgagtttag gttcctttga gttttgtctt gttatTTTT gtggctgaaa 300
 cctaaaccat aaaattctta caaaaatatt aaagtagaag aaaacctcaa aaatctagag 360
 tgacttggtc acctattgta gttttgtcat agaagtcacg tctagtcacg aaacttgaca 420
 cataagattt cttatgttgt gctgagattt attttcttgg ttc 463

<210> 4163
 <211> 478
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4163

tgcagcttgg caattacat gattacagtt ggaggatata aaggtttctc ttcacaaag 60
 aagttgacac ttgcattaca cctctgcaca gcagcttgac caatgatgac ctgcataaat 120
 gatcagcctt agcccctacc acaacaacaa cttgaaggcc acaaggcaat taacacagaa 180
 atcttattct tacattaata agaaaaatgt tactatcaat ccactctcta acaccatgtt 240
 gaacgtactt tttttattgg ttcaaacgca ataaatttta taaatctcgc atcatgattc 300
 tctctcttaa tttgtaggtt ttaataaatt ttaaataatc atgttcttaa cagtcttgca 360
 gtaatactat aaaggttaac catcaagcta gtcataagc ctgtcaaaca tcaacaaagg 420
 aaattggaac tactatgggtt tattgtatgt accaatctct acgaagaana actatata 478

<210> 4164
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4164

tctcatccat ctcccaagat ggtccattga agaaaanaat gaagggaag aacaacaaaa 60
 atgaagacaa agggagtatt gtcaatctgt ttctcggatt caagagtttg ttattggcaa 120
 gtattgactt ttaactaag gaaaaaacta tttttcttct gtgttctata aatgactgac 180
 aacatcatga gaaaatacaa gattattaga ttataacca ctcaagatgc ttatgactca 240
 tgctgttat tttagagcta cacttaaaaa cacaactatt tgcagtttac caagtaacat 300
 gtgtgtgtaa ttaagagttg aaacttaca cagcaactac ttgttcttct tctggaagat 360

cttcaacaaa aacagctccc ttctcaggag ttttcacaac ttcattcagct gtaccccatca 420
tcattagctn ttgaccttg anaagaagat tatgtagatc aattaaatga 470

<210> 4165
<211> 471
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4165

agcttgaacc ttgagtcttg attcttgaaa tcaaatttcc tcttgaacct tgaagtgttc 60
ttaattcaat cttgaacatc ttgaacatct tgattcaatc ttgaacatct tgaacatatt 120
gaactcattc tttgattatc atgaattgac ctttgagctt tttgtcatca cctttgttat 180
catcaaaaaca tctttgaatc aatcttgatt catcatgaag ctttgcttct acacatactt 240
agtaggatca aaagttattg tttatactga ccatgaaccc attaagtacc tgttgaataa 300
agctgattcc aagcccagat taatcagatg aatcttggtg ctttaagaat ttgatctggt 360
tatccaagac aagaaaggat ctgaaaatct tgtagctgat cacttatcaa ggtagtcaa 420
tgaggagggtg actttgaaag agctatagat aanggatgaa tntcctgatg a 471

<210> 4166
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4166

tagcaacagc cnnnnaacc caattttgtc gaaaccaagt gtcattgatt ctatattacc 60
aattttgcta gctgttgatg ttgcatcata gttttgctat gtcattctacc tttggtctca 120
tctctttacc ttacaattca ggcaattcta tcattaccct ttttcaatat atagaattgg 180
caacatgcaa acatatctaa tccaggaaat tccaccacta atagtcagcc tataatccat 240
aaccaatgaa gtcccccatc tccaatttat tccatcttct aattttattg tagtttctgc 300
agatttaaaa taagcgtttg gttcttcggt ttaacataaa tctattgttt agtttataat 360
tcaccaatt ctgcctttag tcattttcaa catgcagAAC tatcaacatg caaagagatc 420
tgattataca aaagccagga tcaacagaaa acgtattatg caac 464

<210> 4167
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4167

agctntggag tttccaagtg ccaattcgtc ctcttcttta gtccagtctt cttctggctt 60
 caattcatca gtgggctttc cttctgtgtc cagcatcttg ngatgttccc agcctatgat 120
 gacagctttc caggttctgc tatccactga tttgaggaag gccaccattc ttgctttcca 180
 gtattcatag ttgcttccat caagaattgg tgggtctgtc actggtcctc cttctttctc 240
 catgttcac agaatattat tcccagatc tcaactctgtg atttcgagtg tttgctctga 300
 taccaattga aattctgata ccacgggaca gatgtcgtac aggatgtcac gacatcacgc 360
 ttcataacat gcagattgta tgtgtccgta tgaacagact acacaagtna ataacacaag 420
 agaattgtaa cccagtcggt gcacctcacc tacatt 456

<210> 4168
 <211> 452
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4168

tgtaatcgat tacacatata ctgtaatcga ttaccagagc agattntcag aaaatattct 60
 caacagtcac atcttttatg tggttcttga atggctatca aaggcctata tatatgtgac 120
 ttaagacacg aatttgctaa gagtttttca gaacaaaaag gtcttatacct cttaaaaagc 180
 aaatcgtttt atcctcttac aaattccttg gccaaattac ttgtgattca ataaggaatt 240
 atttgagtac tcaaattggt caatctatct ctttcaagag agatttcttc ttctcttctt 300
 cttcattctg aaaagggatt aagagaccga gggctctctg ttgtgaaaga attctaaca 360
 caaaggaagg gttgtccttg tgtgtttaga acttgtaaaa ggaatttaca agatagtgga 420
 actctcaagc gggttgcttg gggactggac gt 452

<210> 4169
 <211> 463

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4169

 agcttgtatc ttcatgccaa atactttcct ccaactntcc tttatatagt tggattgtgc 60
 agaaaaaggc aaaaaaaaga aaagtagcgt taaacttttg cttttaataa atatttttaa 120
 ttttaataaaa ttttaaaata caaagtgaca aattatcata aatttaatct tgcaatattt 180
 tatgtttctt taataaatgt tnttatatat aattctgttc atataaaaaat aaagaaatcg 240
 ttctttaatt tattcattcc atttcaaaat tatactctca atcaaaattt tggagaaata 300
 atattaatat tttattttta atttattttc ttgaaaaatc tcaattacta attaaattta 360
 tcaaaattca tataattata tatacaattt ataaaaataa aaaatatgtt aggaagttcc 420
 acatcatatg cctcagttct tgagggtaca gtttatatat cta 463

<210> 4170
 <211> 148
 <212> DNA
 <213> Glycine max

 <400> 4170

 gcttgctgct cgagccatca aatgtgtttt ccttggatat tctatattac aaaaaggtta 60
 ccgatgctac tctcctattc acaatcgcta ttatatctct gcagacgcaa ctttttttga 120
 acgaaaacca taccttgctc ctttcatg 148

<210> 4171
 <211> 393
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4171

 agcttatgca tgganaatgt aattatgaaa ttgagatgcc cgaagaaaca ccatttccta 60
 gttaaccatg cattatgtac catgttcaat tattttgttt ttaagtgaac cggttttatg 120
 atcccaacat ggttggtctc taacacatga aactaagaat gtagcgtgaa gtttcacgct 180
 tcccccttct ttgtttttgt ttgttagagg aaaacgcaag gatgagcata catgataaca 240
 aatggtatgc gattctgcag atcaaaaagt ttgctgaacg catatgcatg atgatgcat 300

gactcatgca aaatgtgagg ctggaatatg ataacggact aatgcaggat atgttcatta 360
 tgatgttatg aacagatgct tatgcgatga tat 393

<210> 4172
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4172

ntgcacgtat cagtcaagtg tatggaccat atcgtagcca aagtgctcat cgataatggt 60
 tccagtttaa acgtgatgcc taagagcact ttggagaaat taccattcaa tgcctccac 120
 ttaaagccga gttcaatggt ggttcgtgcc ttcgacgaca cccgccgaga ggtagggga 180
 gagatcgatc tccagttaca gataggccct cacacctgtc aagttacttt ccaaataatg 240
 gatattaacc cccctacag ctgtctgttg gggcgctcgt ggatccactc agtgggagtt 300
 gttccctcta cactccacca aaagttgaaa ttcgtagtgg aagggcatct ggtcatcgta 360
 tcaggcgagg aagacatctt ggtgagctgc ccactctcta tgccttatgt ggaagccgca 420
 naggagtcac tagaaaccgc tttccagtct ttgga 455

<210> 4173
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4173

agctggcttg tggngcttct acggaggctg gatcttgagc ttcaatgagg tcctttaatg 60
 gtgattntcc accatggaga tgcagcggaa gacaaatgag aagaggtgag aggaggcgcc 120
 atccactatg gaataagcca tggaagaaag agcttcacca ccaagatgag cttggataa 180
 gaagcttgga gaggatgctt caatggagga aaagaaagag ggagagaaag agagaggggg 240
 gagcatgaaa ttgaaggaat aaaagagga gagaagtgga aatttgaagt atgtctcaca 300
 agactctcat tcatcaaagn tacaacaagt gtcacacatg cttctattta tagactaggt 360
 agcttccttg agaagctttc ttgagaaaac tttcttgaga agcttccttg agagaacttc 420
 ctcgagaagc tagagcttag ctacacacc catataatag ctaactca 469

<210> 4174
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4174

tctagcaact tgttgattga cattaatttc aatccacaga tcagagaagg aataagaaca 60
 tgaacagaaa gaagcttgca gggattctag caggacttat tgcattcggt ataggactaa 120
 caattcttgt gtgggccact tcctcattta taaaaaggat gaatctaggc aagccagggtg 180
 aaaatttata agtgaacttt taatgatata ctcttgatag ttttatattc taatgaatac 240
 ataattatat tgacataaaa gaagtattct tcaattctga agtttatttt ctatttcacg 300
 tatatccctc taaatagtta acattataac ctccaatata ttaattatga gaaattcatg 360
 tctcccacaa aatcagaaat tataaaaaag ctaattcact ggaagcacat ganagagatg 420
 gaagagaatg acatacaaac aata 444

<210> 4175
 <211> 416
 <212> DNA
 <213> Glycine max

<400> 4175

agcttgatac acgcagagac taacgtcgtc ttttgcggcc ttcgtcaatc gcggccgaca 60
 agcccgttga cagcagaga tttatgtcat cttccgcgct tacaagatct gtcatactga 120
 gctttgagtc acgtgacgg gcggaaatac ccgagtggct atccgtataa actttttgtt 180
 gtatgtaaga cgaaaagcct ggtagcacgc agagactaac gtcgtcttcg gcgcccttag 240
 tcaatcgcg gcgacaagcc cgtttacacg cggagattta cgtcatcttc catgctcaca 300
 agatctgtca tactgacttt tgagtcacgc tgacggggcg aaatacccg gtgtgtatac 360
 gtataaactt tttgctgtct gtaagacgaa gagcctgata gcacgcagag actaac 416

<210> 4176
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 4176

nttcgtctaa cagaatgcaa caagtttata cggataacca ctcggttatt tccgcccgtc 60
aacgtgactc anaagtcagt atgacagatc ttgtgagcgc ggaagataac gtaaattctcc 120
acgtgtcaac gggcttgtca gccgcgattg acgataggcg cataagacga cgttagtctc 180
tgcattgctat caggctcttc gtcatacaga caagcaaaaa gttatacggg taaccactcg 240
ggatatttccg cccgtcagcg tgactcanaa gtcagtatga cagatcttgt gagcgcggaa 300
gatgacgtaa atctccgcat gtcaacgggc ttgtcggccg cgattgacga aaggcgcaga 360
agacgacgtt agtctctgcg tgctatcang cttttcgact tacagacagc 410

<210> 4177
<211> 437
<212> DNA
<213> Glycine max

<400> 4177
agcttaagaa catgacacca aaagtaaatt cattaacttc aaaagattga aagaagtgac 60
tgcagaatcc aacatttaaa aataaataaa taactgattg tgagataaca atttttgatc 120
ttttcaaagg tagatgctac cagcacgcta taaagaggca tattgaagcc cgtcatctag 180
atttcatttc cttaaattata aaattttcaa ttattttaaaa aaaaaggaaa gaaagaccaa 240
agactgcata agaaagaatc ataaagacat aaagaagtac attttcaaaa ggactgtcac 300
ctttagtagaca tcttccaacc ctttgtcatt tctttcaatg ataaatgttt gaacaggaat 360
tcttcacga ggtaagtcgg ttatctgtga tgcaaggcaa agttgaaagc atttgcaaaa 420
gaaaatgatt tcacaca 437

<210> 4178
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4178

tcatgatgat gaatcaagtt gattcaagaa gttntgataa tgacaaagat gttgacaaaa 60
agcccaaaga atgatttcaa gattaaatca agaacaaatt caagaatcaa gagaagtttg 120

atttcaagat tcaagaaaag atgaattcaa gttccaagag aagaaatcaa gaagacttca 180
 caagggaagt attgaaaaga ttttttcaga aaacaaacat agcatagttt tgtttttcaa 240
 aagagttttt actctccagt aatcgattac cagtttcctg taatcaatta ctagtggcaa 300
 agtttgattt caaaatgggtg taatcgatta caagatattg gtaattgatt accagtgcac 360
 ctgaacgttg gaattcaa atcaattgtga agagttacat cctttcataa aaagctttgt 420
 gtaatcgatt a 431

<210> 4179
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4179

agcttgcttc ccagctcgcc caggcgagca aggttgcttc ctccaaaagc aacaaccttc 60
 tggaggaatc ttctggaggg cccaagtggg gctgggtgct atttgcaccc ccatttttac 120
 taaatacatc ccctgcctt cttttttttg tgattctttt ttcgtaatgt tacgaaactt 180
 tacgaatttc gtaacgatac ttatttttct tccgcaaggt tacgaatcct tacggattat 240
 gtatttactc ttttttagct ttcgaagaag ttacggaaac ttaaagattg cgcaaaaaca 300
 cctttnttcg acttcgcgca cattacggaa tttcacggat cgcgcaagcc tgcttccttt 360
 agatttctga gacgtctcgg gacttcattt attgtgcaac aaaggacgcc aagta 415

<210> 4180
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4180

tgtaagtctc cagacgacga gagtaaaaac ctgcaaaatt tttgaaaata atcagaatcg 60
 gacgaccaac atcatccaga taccgtcgaa tttgttcacc tcgattgatg aaaggagcgg 120
 atgatcataa ggtatctctg cctgccacct aacttgctgt ccctggatga caaaagggtg 180
 ggaagacgat gttattctct gtatgtcaac gggctcgttt gccctgggtt aacgaaaggt 240
 gcggataacc atacagtatc cccgcatgtc acctgacttc atgggtcagg atgacaaaag 300

gtgcagaaca cgatgttagt ctctgcgcgt caacgagctc gtttgcccct ggttgacgaa 360
 aggtgtggat aaccatgcgg tcccccgca tgtcattgga cttggcatct ctagatgaca 420
 taaggtgcan aagacgacct tagtctctac gcgttaacgg 460

<210> 4181
 <211> 348
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4181

agcttgccga cagtagtaat ggcggattgc atgtaaataa cagacccgca ccggatattg 60
 ttntgaaacg gaccctctct cgtaaattgg ttctaaaagg aaccccatat agtaaatttg 120
 ccaagaaatt aatgctgtac ccataaaata attttttaaa atgaatacta atgttatacg 180
 agataataaa aactgatatt aattctatga ttttattttt taatattata gtatcgacca 240
 tgaataaatt atataatatt tttgaaaata tatatacgcg taaagaataa ttataatttg 300
 ctacaatata agcattctga atccttttat catgagatta tatatttt 348

<210> 4182
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4182

tatgaagctt gtctatgac tcttactaag tctggttatt tggatgtagt agtggctcat 60
 tttataatga actcaccctt gcgattatgc atcgtgtggn tgataacctgt gatgatcgcg 120
 aaccttggtc atgggagcac aatgacaaca gcaagggtgca ggaagtgaga ctctgctgag 180
 gagccgtcga gtcgacgtga tgacgctggg attattttgn gagagaggcg tatttcgctg 240
 atcaactcct ccatagtagg ctcatgattc ccttcgctga actatagatg taaagctcat 300
 atgttgaaatt atatgtgaac acattttaat tttcattatg tgtgtgacgt atac 354

<210> 4183
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 4183

agctatatattg aaaccattnt cttcaggcaa tggagctntt acatgctagt cattcatntt 60
ttccacccga cgttttaaatt tgggcttcaa agattcaagc tcatccaaca cagctcgtga 120
tctctataac ggaaaaatga tagaaaagaa gaaaatgacc acatatcaaa tataacaaaa 180
tcaaataaaa gaataaaaca aacacacaca aaactatcat ataaagtggc atggaagttt 240
ctcgcttata tgctgctctt tcattgggca gngaagcttg ataatctcga tgatatggta 300
tagtttcaga aatcaaactt taagaaaaaa taccaatagt tggcacagtg aggaaaaaat 360
gaagatgcc a tactcaattt aattgcnhnc tgacgagtcc accatagaga aaatccatta 420
cgctttcata 430

<210> 4184
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4184

tagaaacatc ttcaaatttg tctaaatatt attacaactc ataaccaatc catattcaaa 60
acgacaaaag cttccaaaga gtcataaaca ttntaagttc gttctcaata tcattctagc 120
tcggaaccaa tacatattca aaacaacaaa gtatttcaaa tcatcaaaac agaaaatagt 180
tccaaatgaa ccaagtttaa taaaaatcat catcttcaag gcgggagatt gcaacagaag 240
taacgtcagt tatcaatggg tctgtcgggt cacctatatt gaaaaataaa agttagaata 300
taaataattta acttgacaaa attaattcaa tctttaaaaa gaataccttc atcatcaaac 360
tccatttcag tgagtaaaat agcattttca tttccaca 399

<210> 4185
<211> 472
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4185

agctngaagt gagaaagtgt ggaagagtca gtcttcctac ttttatttgt tgaccacaga 60
gtggtacctg gagatatgtc gcgnggtca ggagaccttg gggacgtcag gtggggtgct 120

actgcccaaa accaagcttg atcaatcccc acccaacccg ggcatagtta gtcagtgaga 180
 acctgtgacg tacctaaaca ggcgagctcc cggaagtcaa ccaataaaag aataaagacc 240
 acaaagcaag gaggcttgtg tgggtggctgg ccagctatgg atcttgagtg atatctggaa 300
 tatggcctct agtaatcgat taccaagggt gtgtaatcga ttacaaggct tagaaatgga 360
 tacaggaagt tgagatggcc tctgataatc gattaccaag ggggtgtaatc gattaccagg 420
 cttaaaaatg gaaatgggat gttgaggtgg cctctggtaa tcaattacca gt 472

<210> 4186
 <211> 456
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4186

ttttgtcatc acctaaanna accatthtaaa aggtccaacg tcttgaaatg gtcccttttt 60
 cttttatttg ttagacatgg atttaaaaag cttaaaaaaa acaacacata gctntgtcac 120
 ctctttcaaa aaaccaagag atcattaatg gtccaatgcc ttaatgtttt ctctcctttc 180
 aaaagaattg aaagatcgtt tagtgatcca acgccttata atgacctttc attcaacata 240
 aatatatctt gcaaaaaaag gataaagaca acttaaccaa cgttcaattc tcaaagaact 300
 acgtaggtct gatttcctta tcacaattga ggaatacgta ggagcaaggg aaacaccctt 360
 gtcgaccaca aaaagataaa aaatataaaa aggcataaaa agacataaga atgtaaaaaa 420
 ggggaagata aatcaaaatg aagtcattt cgacac 456

<210> 4187
 <211> 467
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4187

agctntagca caatggcaag gttactttct tatgagttac taattcaatt cttaaccccc 60
 actatgtaag agccttgtcc attgggtcac ctctttttta ttttgtaaca tttatattaa 120
 taaagcaaag tatgatacat agtaggaaca caataatata caaaagttaa ataatatatt 180
 ttatcgctca atatataatt cgctgataaa tgaatccttg aacgatgaat atataaaatt 240

tagtccctaa aagtataaat agtgtgaaaa gtaagtaatc gacaacgtga ccatgctgat 300
tagatttgat gaaaatgtca acaagataca acgtaaatgt taatcattnt ttggtggaca 360
aaaaatgtca atattttotta ttgaagataa tatcagtaat ttgttattta cctaaatgtc 420
aatacatttc attggatcaa aatatcaata cgttatcatt attggac 467

<210> 4188
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4188

tcagggtcat angttttaag gtttcactca tcaataattg atgtgtggng agcttagcaa 60
tggcgtccgc caagtgattt gaagaagcct tcaacctggt tgattccgcc attgaagaac 120
aacgagagca ccaatgttat tccgccattg aagaacaacg agagcaccaa tgtaggaaa 180
ggcagaggaa agggggatag ggaaagggc tggacttcta gggacagtac ctccaaagca 240
caaacttggg taaggtattt ctcatatctg ccctattaca taggagtctt tataaagtag 300
tgattcctat aacagaattt gtattcttgt gacaacatgg atcttaacag ataatagaat 360
caatggtaaa tgacacacaa tgtgaacact accgcactaa tgtcagctaa gcactctctc 420
cttcttctc tcataagaag tgaagactag aatattattt attgacta 468

<210> 4189
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4189

agctntagat agcttggtgt aatcgattac gacaaccctg taatcgatta aaacagagag 60
ttgtgcctct tgaagaaact cttctaactt ataaactttt cttcacacta atcatgatga 120
tgcatgatgc aatacaaata tcaaattgtac taagatgcaa caaccaagat aacaaccaat 180
acaaatgcc acaaggat ttaggcattg aaaagtgaac actttctcaa gcttttcttt 240
gagcttcaag ctttagcctt taggttggtc accatgttgc tcttctatc tctaactgt 300
cactccattc catcccacca tgtttgtctt taaccacgaa aaacgacttt gttatccttt 360

gtgtagacca agcaatgaag tacataaaat ttgngataaa tataacttgga cacctactta 420
gagagagaga gagagagaga gagagag 447

<210> 4190
<211> 452
<212> DNA
<213> Glycine max

<400> 4190

cctatcgccc ttagactaat ggctagattg aacggaccat tcagtcgctg gaggaccttt 60
tgagggcatg tgtcttagaa caaaagagga gttgggagag ttaaagacta ctcaaagtag 120
gcagaaaaac tatcaggctg ctcaagaaaa actgagaagg tcaagttaat ccaagaaagg 180
ctaaagactg ctcaaagtac gcagaagagc tatcatgaca agaggaggaa agacctgaaa 240
tttgagattg gtgatcatgt attcttgaga gtcattccat tgattgcgtt ggtcaagcat 300
tgaaatccca aaaactcata cctcgtttta tcaacccttg ttaaattctc aacagagtca 360
gtcctacggc ataccatatt gcattacctc tgtctctgta caatcttgac aatatctttc 420
atgtgtctca actcagtaat tatatctgtg at 452

<210> 4191
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4191

agcttgaacc ttgagtcttg attcttgaaa tcaaatttcc tcttgaacct tgaagtgttc 60
ttaattcaat cttgaacatc ttgaacatcc tgattcaatc ttgaacatct tgaacatatt 120
gaactcattc tttgattatc atgaattgac ctttgagctt tntgtcatca cttttgttat 180
catcaaaaca tctttgaatc aatcttgatt catcatgaag ctttgcttct acacatactt 240
agtaggatca aaagttattg tttatactga ccatgaaccc attaagtacc tgttgaataa 300
agctgattcc aagcccagat taatcagatg aattttgtcg ctttaagaat ttgatctggg 360
tatccaagac aagaaaggat ctgaaaatct tgtagctgat cacttatcaa ggtagtcaa 420
tgaggaggtg actttganag agctag 446

<210> 4192
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4192

tagcaacagc cnccataacc caattttgtc gaaaccaagt gtcattgattt ctatattacc 60
 aattntgcta gctgttgatg ttgcatcata gttttgctat gtcattctacc tttggtctca 120
 tctctttacc ttacaattca ggcaattcta tcattaccct ttttcaatat atagaattgg 180
 caacatgcaa acatatctaa tccaggaaat tccaccacta atagtcagcc tataatccat 240
 aaccaatgaa gtcccccatc tccaatttat tccattctct aattttattg tagtttctgc 300
 agatttaaaa taagcgtttg gttcttcgtt ttaacataaa tctattgttt agtttataat 360
 tcaccaatt ctgcctttag tcattttcaa catgcagaac tatcaacatg canagagatc 420
 tgattataca aaagccagga tcaacagana acgtattatg caaca 465

<210> 4193
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4193

agcgtttgtt ggggagattc acataatcat cgtaagagtc atagagtggc tcggaaggag 60
 ctatgtatgc ccaagggcac tggaggcttg tgctttaag aatccataaa tttcaattta 120
 accttcttga tgaagagcgg gcggagctta tgttcgaata cgatgcgttg cgggtcacia 180
 taatcagaga aaagtatcac tgtggagaat ctttgatccc agatattgat tgtaataggc 240
 ttgagactaa tttctggttg ggcctttgta anacctggcc tgaggtacac aagaaccttt 300
 gctgaaatac tgtggatggg aacaatgtta gagtttctgg gagagcggtt ggcgtccttc 360
 tcaacgtagg ctttaatttg gacaaagcaa ttttctctta gacgtatgga gcatatgaat 420
 taatatgtgc gtgagtatgt tgataatcat gggaactata acttaccgc 469

<210> 4194
 <211> 407
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4194

tcctaaatgg catatctcat ttcctcaagc tntgggtggaa actctccctc ttcataattt 60
tgatcataac cccatgttat taagctactt taaatctcat tccaagaagt tgagatcctt 120
tcaatttcaa ggaacttgga tgtcccatcc agattactca ccactagttc gaaacacttg 180
gcaagatgca aaggggtcta tcccttataa actgcgtcgt attcagatga aatccaagga 240
gtttaatgag aaggtgtttc ggaatatttt tcgtaacaag aagaagcttg aatcccatat 300
taaaggtgtt caccaacagc ttgagtggag gcaggatcat tctcttatta tgttggaana 360
gatcttcaaa gtcaatataa taatatccta gcccaagagg agttatt 407

<210> 4195

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4195

agctagagcc tacnagtcca aaggaataat agttgttctt cacagagaga ctctaattgt 60
tgtcatatta ctggcgcagt attaactatg ggcttaacat tctacagggc attcaaatg 120
agaacaaata cttacaaaaa ccactgaagg caatttaata ttagaagtta caagataaa 180
cctttctcca tcatattttg cggagagata ttgcattact actgggatgc atctagtctc 240
tttaccttgt catgagatgg gcaactgcga aaagggcgct taaaataaat atgacatgac 300
ccccctttg cccattgacc tgcattgtat tagattattt tcaaggatag accttattgg 360
tggagggcat ttgtaatccc tgc 383

<210> 4196

<211> 459

<212> DNA

<213> Glycine max

<400> 4196

gacactatga atactcagct tgtaggctag atatgaactg ttggactctg ttaacactgt 60
gtcgctgtgt gagcattctg gacatacag cacactttct gattcatgct cttatgcaca 120

cacacacaga gagattcggt ctctcgtcag aaacactacg catacgaaca ggcagacgct 180
cacgctgaga acctgtaaca cagacacttg tcagactcac gcacttacac agacaccaca 240
gactgactat gacctattca gagacaagcg cactcccaga tacacgcact ctgatagact 300
tagatggcag aacttttcac agaagcacac acacccacag attcactgtc acacagttgc 360
tgacacacag agaccatgcg ctcattccaca cttgtagaca cacacatata cacacgcaca 420
ctcacactga gaactagccc cagacacaca cacacgctg 459

<210> 4197
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4197

agctntgagc anattcanac gacaataacc tttttactcg gaagtcggat tgagtcccgt 60
tatatattca gacgctcgaa attgaatggt gaagctctga gcaaattcaa acgacaataa 120
ccttcttact cagatgtcgg atagagaccc gtaatatatt gagacgctcg aaatggaata 180
ccgaagctct gagcaaagtc aaacgacaat aactttttac tcggatgttc gattgagccc 240
cgtaatatat cgaaacgctc gaaattgaat gctgaagctc tgagcaaact caaacgacaa 300
taaattcttta ctggatggc cgattgagtc tcgtaatata tcgagaagct cgaaatggaa 360
taccaaagct ctgagc 376

<210> 4198
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4198

gtgaagctcc tgttttagct ttacccgatt ntactcaacc attngaagtt gaatgtgatg 60
ctagtggagt tggcattggg gctgttttga tacaaaacaa aaggcctata gcttatttct 120
cggagaaatt gggaggagcc agattgaact attgcaccta tgacaaagag ttctatgcca 180
ttgtgagagc tcttgatcat tggaatcatt atttgcgttc taatcacttt atattgcatt 240
cagatcatga gtcattgaag tatatcaatg ggcagcagaa gttgagtcca aggcattgcta 300

aatgggttga atttcttcaa tcttttaatt tctcttcaaa atacaaggat ggtaagagta 360
 atgtggtggc tgatgcactc tcaaggaggt atgctttaat ttcaattctt gaaactcgtt 420
 tacttgggtc tgagactctg aaagattata t 451

<210> 4199
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4199

ctgaagcaat ctctgctgct tgaatgcaat ttcagagcca atcccttcaa tagctttgtc 60
 ccctgggatg ataagagcaa agaaataata aatttggaaa tctcttttgt tagctcacta 120
 aaaggtgata cttaaaagca aacacttttc aagtttcaaa actgtatata aagaatgtat 180
 acttacagta ttctttgtca atacattaag tgaatcctca tgaaaccaca atcgactgcg 240
 cttcccaggt ttctttgttg aactttcaag aattatctct cttcccatgt ctctagtagta 300
 tggatgcatt ccaagttcgt tgttctttgc aacttttacg aggctacgct ccatgagaac 360
 tgttattcct atatcagcat gtagtcacaca gccatntagt atctctgtaa cataagctct 420
 atctttacca ataaagagac aacatacatc aag 453

<210> 4200
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 4200

agctcgatgc aatcctaccc tccatgggta ttgtatagaa gactccaaga ggattgagct 60
 agagctgcta aagaaggcct tggcgttctc atgaacocca aggtagattt ctgagcccat 120
 gggccatggt tgggtccact cttctttgta aatattagaa tatgtttttc cttcttttgg 180
 gccttgatt taggccattc tagtagtata ggatttttagc cttgtctttc atggcaattt 240
 gagtagactt tgtagtaggg acttttattt ttcattgtatt ttggcatggg ggcgagctta 300
 tctattatag ggagtgcgta actaagccct acctttttta ggaatcttcc caaggaatct 360
 tctt 364

<210> 4201
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 4201

tactcattga ctataagcct ctcaatcatt ttcttaaaga tgataagttc cctatcccaa 60
 aggcttcac tttccccacc ttgataagag aatcaaactc attctcaaag aatgatttaa 120
 aatcagggttc tcggcaactt ggcctaaaac cacataatcg atacaaaaca gcacacctgta 180
 tgccaaatgc tcaatatcaa tggacaggct taccttttagg cttaaaagta gcttcttctc 240
 tcttgcagaa agccatgacc aaaatctttg aaccattctt ggaaaacact cttgtctaca 300
 tagatgacat tctcctttgt tcaaaagata ttgcctctca ctaaaaattg ttgaaccaat 360
 tctttgaaat agcacaccaa catgggatca tgcttt 396

<210> 4202
 <211> 326
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4202

agctatgtga aactgccatg ttttgatgag ttatacatat ccattctgtt gtacgcgttt 60
 tgtgatgatg attgcgatgt ttatcttctg acaatactga tggaaatctg ttagagacga 120
 aggggtcaaac taacctaagg ttacaaagtg agaatgtgat gttatgagtg gaaaaagagt 180
 gagactctga gagttggaag gttaagtctg aattctgtgg taaatggagg ttaaaatgag 240
 ttaatcctag cttganatgt catttaagac atgtgagaaa ggtaggctg agctacagag 300
 attatcactt gaccaaagtg aacaaa 326

<210> 4203
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4203

tgtagaattc accccaattc tgggtgtccta tgttgaattg ctcccatatc tactcgataa 60
 ttcaatgggt gccataacct caaccaaggt tctcaacct ccatttttcc gaggatacga 120

ctcgaacgca acatgtgttt gtcatagagg ggccccaggg aattccattg agcattgtag 180
gaccttgaag cataaggtgc aaggccta atgatgcgggc ttactgaaat ttgaggagaa 240
ttgcttgtga atcctgacat tcacaagaga tgccacacat ggngcaattt gaagggttgg 300
gttagatgtc tcta atgact cattatgatt ttcaagttta ttccattatt gtaaaccata 360
gttacaattc taaataatat ggatgaattt gacatcgcta tctctcttat cctctca 417

<210> 4204
<211> 407
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4204

agcttgtctc agtgtttatg cgagacaaag accaacaatgt tagccatcgt cagcaagtag 60
caagaagaat taaatctagc cacggccccac gagcacatag tgacggacga gtatgcccac 120
gtgtatgcgg aaaaggaggc tagaggaagg gtgatcgact tgttacatca agaggcaaca 180
atgtggatgg accgatttgc tcttactttg aatgggagtc aagaacttcc ccgattacta 240
gccaaggcca aagcaatggc ggacacctac tccgcccccg aggagatcca cggaattctc 300
agctattgtc agcatatgat agacttaatg gcccatataa ttagaaaccg ctaggaagtt 360
tgtattgtta ctcagatctt gactagntat aactttctga ataaaat 407

<210> 4205
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4205

ntngagaat gcataccctg atcaaaatnt gatgtgtcct cctccagaaa aggttaacac 60
aaaagggtgca tcgaagaaac tgattaacag aaaccaaggt tcaacaaagc gtgatccatc 120
ttactaggag tatgtagatg ttttttattc tcagcaaaat agcaattcgt cagtgaagca 180
tagtgcacat tcttctaagc agcccaatcc aagaaggatc atgcctatct tggatcacat 240
ttagccattt atccatgact tcattgataa cattgttgat gtccaagcta atggaaacta 300
tgggtatcgg tcggttgcg gtttattagg tatagggtgaa aactcttggt cggttggtccg 360

cacccatctg cttatagaac ttggcaaatt cttagaagac tatatcatat tc 412

<210> 4206
<211> 301
<212> DNA
<213> Glycine max

<400> 4206

agctcttggc ggattgaata gtgggtccaa agaatcttct ggtttagcct tgtgacaact 60
ggaatcacct ataggctctg cactgtaggc tgagtaatca ccactgcttc ttgtgtgaca 120
taaaaggac tctgcagca ctcaattact gaccttctcg tttgtgagtc ttgacatcaa 180
gaacaattaa atgcttgatt acaaccaaca tccctataac tgaagtgtga aacaacaact 240
atcgctcatt aatttccata aattatcatg agaatcatct ctctctatcc ctttcaacac 300
a 301

<210> 4207
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4207

tcaccccttg ataatgagga taggagattt gccctggatt cagctagga ctactttcct 60
tagcaccctt atgttcaata cgttcgataa ataaatcttn ttcttttgct atatgcatga 120
gagtttcaat gctagtgtgc acacaaatgt gtgacaccct ctaccccgca catatatttt 180
aatataggaa taaaaactca catattaatt aacagtattg ttaaattatt cttaaataca 240
agcctttcaa atgggtaaca ggctcacatt cactttcttc tacatcatat tcaaacttgt 300
ccatataaat aataaagtca tatcggtca aagaacgcca tctaagtatc atacaattaa 360
tatagaacc atactcta atgcacatctt atcagagcgt ggtgttcccg tgttctctag 420
catgaggatc ttcatag 437

<210> 4208
<211> 477
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4208

agcttgntcc ccatcaaaga taagacaaag tatataacaa gtacactccc cattctgcta 60
gctatcatgt ccacagaaat ccataatgt caatagagat tgtaaagtaa taatcatatc 120
acaatatcac atgttatttg ctacggccta cgggaaagct cgagcgagca aacttgcttg 180
gtgagtaatg ctaactgttt gttgaaaacg cccaagtaat tcattacatt nttacatcac 240
ttgacaagga gtttcggatc aatgtctttt gttttgcgtg atagcacgga tgcagatcaa 300
cttggacact acttcaaaaa tcaaaacgtg aatgataata accaaataaa taagtggata 360
aactctgcaa atgcaggggtg ttgcaaattg catgaagccc aagtactgga cttggaagtt 420
tattgttttt cttcaatcaa ttgataacat gagcatccn cttcatctg gagttca 477

<210> 4209
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4209

actatgaaac tcagctgata gatttanacc acacctttat ctctatagta ctttataatt 60
gaagaataca cattcgttta tttattattt attattttta aatgataaca aaattgaata 120
aaagtgagtt tattctttat tcgttgcaag tgtaattttt ttatattgtc aagtaactag 180
aatcatggt agatattatt tttaagatca ttttataaaa ttcaagaaac ttatttaatc 240
tataattgaa taattctgta aatttaaatt aaactttaaa agtaattata aacattcaat 300
agataattta acttcaaacc ataattatga atgcctcctt ttcataacta taagatgttt 360
tagctntatt tcttatctta naataattga tatntagaa attcanaatt taattaatat 420
ttttccaat tatatcctta tttattatct cattattaat g 461

<210> 4210
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4210

agcttatcta acaagatata aaatacatag ctctgtctta ttattgtcta aagcgtttct 60

aagcgatctc ctattttctac atcaaacggt tcagattggg acccactttg catgtctatc 300
aattcaccat gccatatcca cgtcgtgtaa ttctttcttaa tcccatcaca caatagatgc 360
tcccacatgc cgtccagtag ttgttgtctt ccattcaaac aattgatgca aggacaataa 420
tgttttccat cttcatccga tcgacctctt aatgaagtaa attaca 466

<210> 4213
<211> 469
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4213

ggatggagaa tatgggtcca tacttgtcag ccaagtcacc caatgttnta tgaggtgtct 60
ttgaaccaag caacaatggg aggtgaccaa ttattggcca cgcacctgca actgtgggag 120
gacctctctc gccactcttc gaggaacgac gacacaaaaa caagtataag aggatcagag 180
aaacaacacc aactccaatt gttgtggtgt ttagaactaa gtccattntg acttggtttt 240
gtgttgttgc atgcagatcc tcacagttt aaataggaac tgcaccgtgc atctgtgtgc 300
cgttgtagca cctgactaga tcgagtagag atatttagat attntaatat tntagaatat 360
attcattact tgaattaact aanaaataaa ataatgttgc tgaaatgatg aaataatata 420
gccaaataaa atcttgatat tntaagatat nntttaattt tatattaca 469

<210> 4214
<211> 459
<212> DNA
<213> Glycine max

<400> 4214

agcttgtaat gaagatgaac ataaacttag gatcacttat ttctgggtcag atttcactca 60
ttgctcaatc caactccttg cggcttggat ttccaaccct gattactgcc ttgtgcaagg 120
cccaggagt cacctcagat tctcttacct tcgagtcact cagcctagcc attaatttgg 180
cctatattaa gaagaattgt tggaacctgg atgacctttt tgtcactttt ccaaggaccc 240
aaaaatccag ggctagaaaa tctgaggacc catctctctc tgctccccct acttctgctc 300
ttccttcacc accagcagct ccaattcttt caggtccctc cacttgagc tcagagcctt 360
tcatgtttat gctacagagc ctgcaccagg gccagctcct gattatgcat agcttgcagg 420

atgtggccca gcagtggcca gttatgagcc tggaggagt

459

<210> 4215
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4215

taacgtctnt cacagtanaa ggaccactcc atctctcaat tntaattntc caggaaacaa 60
cttttagttnt aagttgtaga gcaatacttg ttgtctggga ctaaattctt tgtggaggat 120
ctttttgtca tggtcctctt tataatccct gaacacttta aacttggagc caaacaggta 180
atgcctccac atcttaaggg caaaaactac agtagccaac tccagatcaa ggggtgggata 240
attcctctca tgagtcttga gttgtctaga agaataggcc actccttggc cattttgcat 300
caacactcct cctaaacgca tctttgatgc atcacaatac acctcaaggn gttctcttgg 360
gttaggcaaa actagcatgg gagcggccgt caacttttcc ttaagggttt ggaaactatg 420
ctcacattag gtatccca caaaagcttg acccttacga gttag 465

<210> 4216
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4216

gcttgaggat tatggngtac ccatcacatg tggtagctatg tggcggtcgg gcgatggtgc 60
acaacaagtt ttccacatcc acaatgcgcg cataaaccce ccatcccttg ttaccacct 120
ccatctgagc tcacgtactc ccacgtagcc catatcctcg tttctctcaa caccgagtcc 180
ccatcaatcc tcccaagctt ccacaacatc caagcagaac aacattcaaa cagcacaagc 240
tatcacagcc aagcaaaaca gagcanagcc agaaaactct gctcaacaca ccaacaaaat 300
cacagctttt ctacttaaa gacccagta acaattcctt cgatccaatt cgttaaccat 360
tggatcgact ccaaattttt actggaagtc tatagtacat aagcctacat tgtgacgcgt 420
gggatctact agaaaacatn cagaactcat tctgcact 458

<210> 4217
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4217

agatggacca tttcaagtga aagaatcaat gacaatgctt acaaagttga gctgcctggg 60
 gagtataatg tttgttctac cttcaatgtc tctgacttat ctctttttga tgtagatgaa 120
 gaatccgatt tgaggaaaaa tccttctcaa gagggagaga atgatgagga catgactagg 180
 agcatgggca aggatccact tgaaggactt ggaggaccta tgacaagggc tagagtaagg 240
 aaagccaagg aagctcttca acaagtgttg tccatactat ttgaatacaa gcccaagttt 300
 caaggagaaa agtccaagggt tgtgagttgt atcatggccc acatggagga ggactaaatg 360
 gcaccacttt gtctcaattn tagagtgggt agtttgtcta aataatggcc caatccttgt 420
 aatgttggct gacaaaaaat atgttttggg ttaatc 456

<210> 4218
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4218

agcttctagt cnttaggttt ctattgttta tgggtgaatct gttcttttga aaatactttc 60
 acattctgac gtcaatcttt ttctgagata tctgtatct tcattaaatt taagtccatt 120
 catttggtgt gttgggggtgt cctgggtctgg tttctgtcca tttgtcctac ccttttctgg 180
 tacaatagat gcatgtaggt gtgtaggata attataatca tcttgcccct attgcctggt 240
 ttgttctttt tcttcatgac tttnttctct ttctgttca atcttgtgat attgcagat 300
 aatttgtttt ctctctttcc aaagggtatt atgcactttc tgcanacatt nttctatgcn 360
 tagcgtttta accatttaca ttntgcatgt ttagtttata ggggcaacaa tgggtgtcttc 420
 agaattgcag atacanactg ataatggtct aattggcatg c 461

<210> 4219
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4219

gggaattcaa gtaacctcta gttgtctttt tttatttgtg tttgtatata taaataataa 60
 ataataataa tagttaaaca tcgcctttct tttctcttca cttgaagaca tatcanagtc 120
 atataggtgg attattatat ttatccgata accacaaaag taggtattaa tatgataaag 180
 cagaaggaat taattgccaa atcttaatca aagtattgat acgtattaac cccccttcca 240
 aagcatgttt aagatattgg tgtggaaaac aaaaaacaaa atacatgttt aattcaaaaa 300
 aataattntg cgacaaaaat aattntgtta aagaattaaa actcatacaa cattntaaac 360
 ttcaatccaa aaatctacaa aagaagacaa ggngcacaaa ggtagctgtg gctatcagtc 420
 ttacaaggga tgttcatata aacactgagc ctttctcggg 460

<210> 4220
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4220

agcnttgtcc ccaattttct ataaacaggn ggagaagtga agtaganaac ggttcagccc 60
 cttaggcact tctctctctt tcgaatttgc ttaggaaaat tgtttttgtg aagaaaatcc 120
 aagccgagge gcttccgtaa cgtttccgtg agtgatttcg cgaaggtttt cgaccgttct 180
 tcgacgttct tcatcgttct tcagtcttca acgggtaagt acctcaaacc aagcttttca 240
 attcattcta tgtaccctgt gtgggtccaaa tttggtttca tgtattttta gtctcgttnt 300
 catttacttt ttatacccn ctttgacgtg cttaagccat ttatttaagt catttctcgc 360
 ttaacctana aataacataa atntccaccg atcatttgaa ttgtatcatc cgtaaacttt 420
 gggtgaaaaa attccgaccg atcggtcgtg ccgcaaccac attgga 466

<210> 4221
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4221

tgtaggcgtt ggatcttctt catcaatgga gtcattggct tcttgaagat catggcagcg 60
 gaatagagaa ggaagaaaga tgattggaga cccacttca aggagatgat gagtcaagaa 120
 gaagctcacc accacaggaa gccatggata agagcttgaa ggaaggcgaa gatgagtgga 180
 gggagaggga gagaaggggc acgaaattnt atgcctcaaa tgaggtctga actttgaagt 240
 gtaattctca aatgatcaaa gttcaaaaaa tgcacacaca tggcctctat ttatagccta 300
 agtgtcacac aaaattggag agaaatttga atttctattc aaatttcact tgaatttgaa 360
 attgaatttg tggagccaaa atttcaataa ttatgattaa tgaattttag atatggttca 420
 gccactaat ccaagatcaa gtccaagat 449

<210> 4222
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 4222
 agcttctaag gaagctgtct cattatagct tctcaaggaa gctacctagt ctataaatag 60
 aagcatgtgt aacactcgtt gtaactttga cgaacgagag tcttgtgaga cacaactcaa 120
 aggtcaacct ctctcccttt atcttccctc aatttcgcgc tccccctct ctctttctct 180
 cgctctgtct ttgcctccat tgaagcatcc tctccaagct atcttataca aggctcatct 240
 tggcggagaa gctctttctt ccatggctta ttccttaatg gatggcgct cctctcacct 300
 ctttcccttt gtcttccgct gcatctccat gagggacaat caccattaga ggacc 355

<210> 4223
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4223

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 gaggataagg gggagagaag atgaactttg agttgtgtct cacaagactc tcattcatca 120
 aagttacaac aagtgttaca tataacttcta tatataacct aggtagcttc cttgaaaaac 180
 ttccttgaga agtttctttg agaagcttct ttgagaagtt agagttagc tacacacact 240
 cttctaataa ctaagctcac ctcccttgaga agcttccttg aaaaacttct ttgagaagct 300

tccttgagaa gatttataga gaagttagag cttaactaaa cacaccctc taatagttaa 360
 gtcacctnc ttgagatgag aagctagagc ttaactacac acaactccta taatagctaa 420
 attcatccca tgccaaaata catgaaaa 448

<210> 4224
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 4224

agcttgctca gattccacat atcctgtgac tgttaaaaca acagctgggt tagtgacgga 60
 agaatagtcc atagttaagg attcaactat atataggaac gtcaagttgt tgactttgaa 120
 cttgatagtt tatagtttgg aacgacctat gtctagttaa tggcccagag gctaataatta 180
 aagacattga ctaaatacagg agtcttaaaa attattattt tttaaataa aacatattct 240
 cactattttt tttttttact tacgctatcc attttatttg gtcaattctt acttggtcga 300
 agcactcatt ggagcatttt attaatgtta tcctctcttt tctcttaaca tcaggcatat 360
 ataatccata tccttctctc atattctttc 390

<210> 4225
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4225

nttataanaa gcattttctaa gcataaaact aaaatatgtt gtattgagct cttgggtattt 60
 tttttatgat aacattttta attatgagta taattttata attattaaaa gccatcagtt 120
 tttttttaa taataatttg ttcacatttt gttcaaataa acttaatgta agttctctga 180
 atttattgca ttctggcgac tgaaattcac aatcaaaact taaagtgtgc tgaataaaaag 240
 tttttcatag atgtaataa gtaaaataat gttcataaa taattaggtg tctaatagaa 300
 gaataaagtt aatacaactg ttctcgaaat taaagtagaa tcgatacatt cacagatgtg 360
 tatacataat aatgggtgtg tattcaatac atattgtttt gctttactgt cgaactatgg 420
 aattccatat acat 434

<210> 4226
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4226

tggagggagg tccctcactc gtatctgtca ggtgatagtg gcacccataa gaaagtatca 60
 tgttgaagca cctgatgaca agtctctttt atatgagatt acatatacca tcaactatct 120
 tatcaaaata tggcaatcct gtagtcatta attctccaat ccttcagtta gggtataata 180
 tctgaaatgc tagctaggac cagattcttc aactcaaggg gaatatgata atgtggaatt 240
 cattntaaga atgcttcgtg cattcgtcac tggcatcaca ttattggaat gccgttgatg 300
 atgccgtaca gtagcataaa ttaactaagc ctagcagaat ttcacgtaat attctaatta 360
 cacagtttta ccttagntta aatttcaaga gagctctctc tgngttctca agcatat 417

<210> 4227
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 4227

agcttcttat acaaggctca tcttggtggc gaagactctt cttccatggc ttattcccta 60
 gaggatggcg cctactctcc cctcttctac tttgtcttcc gctacatctg catggtggaa 120
 aatcaccatt aaaggacctc attgaagctt aaagatccag cctccataga agccccacaa 180
 acaaggtgtc catcagtaat gtcttacgca agatataaag gttgaaacat attgaggaag 240
 aagtggtttc tgttctcaca cccagcatga agacaacat gagttacagt gggagggaca 300
 agattgagac tctagagcac gcgacgtttg tgaggccata tgcttactat atg 353

<210> 4228
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 4228

tcatggtgaa tcataggtga ttcataggtg tctcgatgat aacaatgatg acaacaaaag 60
 atgatgactg aggtgatgaa cataaagctc aaagatcaat cagagaacaa ctcacgtgaa 120

tcaaagaaca tctcatatga atcaagaaca agtcaagagt tcaagataag aatcgagaag 180
aattcaagac tcaagaagac agtctagagt caagaatcaa gattcaaggt tcaagatctc 240
gagaatcagg actcacagat tcaagaatag agagaaaact taatcaagat aagtattaga 300
aagttgttca aaactttgaa tagcacatga gttcttgcaa aaccttttac tagaggttgt 360
actctctggt aatc 374

<210> 4229
<211> 330
<212> DNA
<213> Glycine max

<400> 4229

agcttgagct ttgaattgag tgtcattgtc agtggcaatg gcgtaaagaa gaccatattt 60
tcatatgaag ggtttgcattg agaactttctc tacctcatct ggtgaaattt ctcgcaatgg 120
tcttgcttta atccacttag tgaaataatc aatagcgact aataagaatt tgacctatcc 180
tgoggctttt gccaatggc ctagtatatc catccccac atggaaaaag ggccagggtcc 240
tagtatgacc aataagaatg taccctttgg ctcgctcacg tagctcgtcc atgctgctag 300
ggggtttctt gcatatacta tcagggaact 330

<210> 4230
<211> 334
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4230

cgctctata gctagccatc acaagaagat catattnttc aattgacgtg ttatccacat 60
cacattctac acggtctcac catgaataaa aagggaaatg gntatttctt ctccttccat 120
actcacaac aaacatgatt ntacaagcat caaactcaac ttatgaaaac atgtgcatca 180
tgaccacaa cagcacatca caatccacaa caatgccttg aagcattctc acctattcca 240
cgaattggat tcatgcccc ccccatgttt tattgcatgt tatgttatcc ttccttttct 300
caatattatg cggagtttat catgactcat attc 334

<210> 4231

<211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4231

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 tttaacctgaa gtaattatca cagcatcaca atcataatct cgttctatctt gcaatcaaaa 120
 tgttatgctc tattcctaga aacataatgt aaagagtaaa ttcattcagt tcaaattcta 180
 agagtacttt ccaatcaaaa ttaaaatcca atttcatgaa acttgatgac aaatagaatc 240
 aaacattaag aatagaatga aatcaccaat aatgagtata aaatattcat acatatatat 300
 aatatcaaaa gagatacata aggggtacaaa gattacatcc aatccttttag agaaactaac 360
 cgatcattgc atagagtaca agatcaacaa gagaaatgat gaaggatgcy atccatgggt 420
 acaactctgt aacacctggg ctccactntg tgctttcttc ttccttctat g 471

<210> 4232
 <211> 471
 <212> DNA
 <213> Glycine max

<400> 4232

tagccaattc tactgcctgg ggcaaagaca atgggtcaaag tgctggactt cgcgatggag 60
 ctctggattc aggccagaca caaagccctt gacaatctcc attgataggc aactaaatac 120
 atgcaactgg aggagctcac caagtacaac cggcagttga ggaatgaagc atccgactca 180
 aagaaggagt tagaaaggga tgcccaaaaa ggaaaaagaa catgcacgca agactagagg 240
 acctttctac aactattaca ctccccttaa tgatagccaa tcaaggatct tggaacaagc 300
 ccttgctact gaatttttca tgatgcaaaa gcaggctaac cccccctaag agccaaccac 360
 tcaaagcatt ttgatacca taggaattgg ggtcattcct cagaagaatg cataacacat 420
 aaatacaaga ttaaggatct aattaaaaaa acatgcctaa aggatttcaa t 471

<210> 4233
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 4233

agcttatttta aaaaaatata aaataaatag ctgtttctta agattgtcta cagtgttttt 60
 ttataataaa aaaaaacagt tttctgcttt atttacaagc aaattctatc tggttctcac 120
 aaaatcactt ttttaacaa cacttttttc ggaatcactt ttttgaagtt taaacaaact 180
 ggtccataaa caatctcaga aatgaaaagt tcaatccaat tatacaccaa gagagacagc 240
 ggattagtga atctttttaa caagttacat gcaacacatg tccacagaaa aaaacacaac 300
 taaattaaac taaataccat tcaactagtg aggaattgat acagctttat tctcaccata 360
 taattgcagt tgtgtattta gtgatgtttc caataaggta atgagggtga tcagagaagt 420
 ccacactaga cccgaacaca attt 444

<210> 4234
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 4234

ctacagcttga atgaagtcca acgcagcacg cgtgtcgtta aagttgggaa ggtaggcaa 60
 tgaaggagat gaacgtggag tgtagtctcc actgtacttt actctagcag aggttgtgga 120
 gttatcaaag gcaacaccaa caccacttga atatgctctt gcagcacgat agtaatgatt 180
 aagttcttgg ttggcatgca ataacacatc cattgtttgt cccggtgata tgcaaatgta 240
 ttcccttgcc aatggcttgg ttaacatacc atcagcacca acaacagtga ggttgtgttt 300
 tgaaacagag aagaagagaa tgagattcat tgccgcattg acaacacgga gaagataagt 360
 cctgccttgc tctacatgaa actcgaacgt ttctgaaaat taaaagaaag ttttgtgttt 420
 agatgagctt aacctcatag atac 444

<210> 4235
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4235

agcttgtggt gcacgatggt tccttcaagg agatcttctg ccttccacag ctganagtat 60
 tatgcttggga accccttggga gaactcattt ccattggatt aaagaactct tggattgagc 120

ccttcctacg aaatctagaa accttggaag taatgagttc ttttagttcc ataaacttgg 180
 taccacacac agtgtctttc tccaatatga cgtatttgga aataagcagc tgcaatagcc 240
 tggttatattt gttcacatcc tcaacagcca caagtttggt tcaactcaaa agaatggaga 300
 taaaatgctg caattcaatt gaagagatag tgtctaagga ggggggtgaa tcacatgagg 360
 atgagatagt atttcagcag ctaaattggt tgaatctttg ctaattacaa aacctcaaaa 420
 gtttctacat agggagttta agttcccatc cttggacaat tgtcaataac c 471

<210> 4236
 <211> 475
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4236

tctaagctta cctacgctng agtgaatggg agtaagccaa gatcttaaag tggagatgaa 60
 ggaatgtaga agctctttgt cttggagtct cgaaagcaag aaaatgagaa gataaatgac 120
 aattgttaat gaaaatcggt aatagttctt taaaagagtt tatacctatt aaacactaat 180
 ttttactagt gattttatta actaataaat atttaagaga tttacttaat tattaataaa 240
 aataataata ataatttcaa taataacgac cattataata actttttata taaaagattt 300
 atgtaataat ttcaataaaa atagcaattc ttgatgataa taattttgat gataaattca 360
 ataatgcatt cgataacaat gttaatagta atttcaatag cactaaacaa tgaagattga 420
 ataaaaataa tgtttagaac agaaatggag attaacaaga gatgtgagtt tatag 475

<210> 4237
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4237

agctntaagc atacatgaaa tacaggcgcc aatcttggtt tctatccaaa ctcacgcact 60
 tgcatttgtt gattctaaac agtaattaat gttggttctt ttatgtatcg aaactgttag 120
 gagagagaaa acacctcacc acttgaagga ttatgtttaa gggattttgg cacaagttca 180
 tttatttggt agcgcagtac tgcattagga taattctggt agtgttccct ctgcttgcc 240

agaggattct gttggtggct gttgtcctat agtgagcaca tataactata tatatgcagn 300
 gtattgacag aagggaaata agaagaatat aagcaaagtt ttctctctat gtcttaagct 360
 tttctactct cttctctctg cttctgcatt ctgcatttct gcttctattc aagttcttaa 420
 catttggggc tttcattgag ctcccatggc ggaacctgac cgatggaacc 470

<210> 4238
 <211> 365
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4238

ntgtccgcaa atccctcatg taagactagg cctaaactaa acagcattat tgtaacagca 60
 taattaaaac caaaacttaa ctgcgagaat cctcatgtaa agctaagttt caatcctgct 120
 tcaatcaaat tctaaggcaa cagtacattt ctgatgcta aagtcaccta actgtgcaca 180
 caaatgggtg atcagaccca aaacatacaa atattaagca ttgaaggaag cattgaacat 240
 taaaacataa tcaattagat attaggtatt tacatcagtt ggtcattaga aatccccaac 300
 taggggtggtt agccagccac tacaagaaa ccctaaccat aaatgagatt aaaagcagag 360
 aatga 365

<210> 4239
 <211> 367
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4239

tctgagtcac ctgccgcatg caagcttggc ctcttgaaa ttctttgcac tagtcactct 60
 tacagttgtg acgtttgaat aaatctacag aaacaagtca cttatagaat tgtgacttct 120
 ggaaatatat tctgtgagat tagtcactgg tgatcgatta ccattaaggt gtgatcgagt 180
 acacatcaac agatgtgact tttcattttg aatgttgaan aattaaaaca tttagaagct 240
 ctggtaatca attacaagta ttgtgtaatc gattacacaa gtctaaaata ctgtaagact 300
 atctaaacat aagttataac tcttgaaatt gaaatcttaa cgttttaaaa cattggtaat 360
 cgattac 367

<210> 4240
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 4240

ctaagattag cctgtaggca atttcttagt gcgctaaaaa ttcaattcat cactcatgcc 60
 aaatattagc agagagcatc agaccggtca actatgataa gaaacagcac agtagacaat 120
 ctgcttcatt tccttaaaca gcaaccgctc gatgaagcaa acctcctgca tacaaccatc 180
 tttagttgca cttacttggg acattaaaat actcagacca agaaaattga aatgcattag 240
 tctttgcaat ttgtattgca ccatacttaa ggatttccat gtgaatagtt tataccataa 300
 cacagattat gctgaccaa ttgaccaag tatacacaca agacttcaat aaagtgatta 360
 caccaactca cttatcatca tcttaaaatg aataatcctt cacatcagat cttgaatcac 420
 cca 423

<210> 4241
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4241

ggatcttaag cacctgcagc tgcagctttt atccaggaaa ttcttggtggg cgaagctcct 60
 tcttccttgg cttattccct agtggatggt gcctcccctc tcctcttctc ctttgcccta 120
 cgctgcatct ccattggtgaa aaatcaccat tgaaggacct cattggagct caaagatcca 180
 gcctccatag aatcttcaca agcaagcttc catcacattg gaccattaat gatcttttta 240
 tctttggaag aggttaataaa gctacgtggt tattctaggc cttctttaga aatctatgct 300
 taaacaataa aggttgaaaa gaccatttta aggcactgga ccttnaaaca tggctctttg 360
 gtgatgaaaa acactttgct tatgaattga ttttagcctt agcttcactg tggttatta 419

<210> 4242
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 4242

nttanatgcc aaaatagccc ctacctcctt tcttcattaa aaatgtaact nntttttttc 60
 cgganaagtt gtttagctcc attnttagaa acgttgngct tcttgttttc tcttttttcg 120
 tgcgacattg cctctgggtc gtaggggtag cagcgttgag cacagcggtg aaggtgaagg 180
 tactggcgtc gagcgttgcg gtggtcgggtg ggggcaaacg aggtacgcag atgggtggttt 240
 gactgttgcg gacgtacgga tgagttccgg atcaacttga tccgtaagct tttttcagat 300
 caacttgatc cagaagctgc ttaataatct tctggatcaa gttgatctgt aagagacttt 360
 cggatcaact tgatcccttg atccggaaga gtattaagca gcttccggat caaantgatt 420
 caaaaaagtc ttatgga 437

<210> 4243

<211> 394

<212> DNA

<213> Glycine max

<400> 4243

agctagtaga atggctagac atgatacatg tcaaggtttg gtttggttca aggataaaaag 60
 ggatgccccca cattattttcc atgacacaaa tgcaacaatg atgatttgga aatttttatgc 120
 aaaactggtc atgcatgcac ctatgtggac actcaagtgt caaattttta tggatcatgtg 180
 atgctagggc tcaagattca tttcctctac tttagtccac ccaaagtttc caaaatatgt 240
 tcttttatca atttggtgat tcatccgagt ccattatgag cgtccgggaa aattttcaca 300
 gcattcacc cttcaggtgta cacacacatt atccaaaaat atggtatgat cagtgaattg 360
 tttcagagaa taggtggaga tcatctcttt tcat 394

<210> 4244

<211> 356

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4244

ttcaacaaga gtcttcacat ataaccatca tgaagcagat atctaacaaa actaccatc 60
 atatctccca aaaccccata cccacgaaat ttaagagaga aagaagtnca cccagacctg 120
 aattttcgaa gtcccacttg gaatcacgca ctttacgaca tgcgaaaggc tctggttgtc 180

gggctaggag canaaatgag caccacaggt tggagctctg ttgggggttc aatggagaat 240
 ggaggagaag gaaaaagcac cgtgatgaag agggagagct tcttgaattt ctgttttggc 300
 tgagtgagga gagagaacag ctttttgggt taaataaaag gatttcctct tttcta 356

<210> 4245
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 4245

agctctacta cactaaccaa attccgaatg tatgatacga tgggtgcatat cttatattac 60
 tatttataaa cacaactgaa atttaaagca accactacta gtccaggatc tatactattg 120
 caatttccaa ctgttagttt attagtggct aaaagagtag gtaaaagtta accagactaa 180
 ttaaataata atatgccctg tttctatata ttgttaccat aaatatattt aaaaaatcag 240
 accaggctta ttgctttaag tttttcacta tatataaatt cataatgaaa tgtatatttg 300
 ataatatatg ctctaaaatt tagatatatta tttattatta aattcttata tgatggatat 360
 attactacat ataaaattca ctataagaac tcagagtgcc ttccaaccac caattatttt 420
 atattgtaga atcg 434

<210> 4246
 <211> 347
 <212> DNA
 <213> Glycine max

<400> 4246

ttagaccttt gatggcatgc tggcatcacc ctcatctctg ctcttgtag cttcaaactt 60
 atcaattgct acctgcagtt catcagtgcc tccaacagcc ctcatgggtg agaagtatgc 120
 accaaagaca aaagctgtca aacccccagc aactaccaga ttctttgcct taggtggaag 180
 gctcctatat cctaaaagtc cagccatctt gatcaatgtg ggaaaaaagg gttagcacia 240
 tttcacacia ttacaattac cttcaattg cagaaagca aaaagatcac aaaacagata 300
 attcagatct gtaaagaata atgagtagac attttcacia acagatt 347

<210> 4247
 <211> 464

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4247

agctntaatg gtgttaagaa gaaatcacat gttttgtatc atcaacaaga gggagaatgt 60
gaatgtatgt atacatgatt ttgatgatgt caaaagaaga atcaacaag gctcattttg 120
cttcaagatt aatacaagat tggttcatca aacaaagcct tgattcaaga tttcttcaag 180
atcaagcctt gcctcacaat gaaaggtttc aagtcattca aggcacatgt aatcgattac 240
caatacatgt aatcgattac caatggtttg aaagtgtgta atcgattaca catcatatgt 300
aatcgattac cagagactct gaacgttggg aattcaaatt ttacatgaag ggtcacaact 360
gttcaagaca aacaactgtg taatcgntac actaattatg taatcgatta ccagagagga 420
ttttcaggaa tatcgccaac agcacatctt atcatttgaa tttg 464

<210> 4248
<211> 362
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4248

ctgtcgaaat gccatgtgtg ggtgagttag acatacccat tctgtntan ggtttttgtg 60
atgatgtttg tgatgtttat atgctgaaat tgctaattga aatctgttag agacgaaggg 120
tagaactaac ccaaggtttag aaagtgagaa tgtgatgtta tgagtggaaa aagagtgaga 180
ctttgagagt tggaaggcta agtccgaatt ctgtggtaaa tggaggtttag agtgagtcaa 240
tactagcttg aaatgtcatt tagaacatgt gagaaagggtt aggctgagct agagagaaaa 300
ataaatgacc aaagtgaacc aagagccatt tctagggcaa aattgggtgt tgaagagtca 360
aa 362

<210> 4249
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4249

tatcaaaatg caccttaagt gcatgtttgg aaaagattaa tttcacgaaa tattcacttc 60
 ttntttgaaa gttctcttgg aaagctaaca aaaaataaaa gtgattatct ctagaaaata 120
 agttgaatca aacatgaact aaatctttta agagcctaaa agtgattatt ggctgcaaaa 180
 aagacttcaa ctaaccaa at ccatacaaaa caagcactaa ccaaagttct ctcatgtaca 240
 acattgacaa acatgtgttc tacttcta at gcgccctttc caatttccaa attcagtttc 300
 taaacctttg aagagctcga gtgattactg accggtaaaa tcatattctc agggccaaaa 360
 tgcagcgagc tatgggactc tattatctac tacaaaaaa 399

<210> 4250
 <211> 341
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4250

agcttaatca caaaggatgg catggtcact ggctgccata ttttcaatca gctccataac 60
 ttcatcaggt gtcttcagtt tgatcttccc accagtggag gcatcaagta actacttcga 120
 atgggggtcgc aagccatcaa tgaatatggt gagctgaacc ggctcgttga acccatgggt 180
 gggagtcttc cggagtaa ac cgtggaagcg gtcaagagct ctccaccttt tccttcggag 240
 tcttggactc tggaaaatat ttcttcaaan atttctccac cacctcttcc catgtctgca 300
 aactatttcc cttgacgagt gcagccattt ttttgcttca c 341

<210> 4251
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4251

tacgtgacac tataaaactc agcttaatag tcaggaaata atataattca ccctctttta 60
 tattcgagcc attgatcaac aagggatcaa gcagtatctt gaaaagttca caactacaga 120
 tcatggctct taattttggt ctgaggaaac catcatagga caccatatta atggggaggg 180
 ttaccactat tttggaaatc cgaatacaaa tctttattga gccatagant taaacatttg 240
 ggaagcaata gaaataggac cttacatacn caccatagta gatgtaagca ctagcaccac 300

aacacanaaa cctagagata agttgactga tgaggataga agaagatcca atataatctt 360
 aaagacaaaa acattatcac ttctacccta tgaatagatg aatattcaca catatagtca 420
 atcatcttg 429

<210> 4252
 <211> 293
 <212> DNA
 <213> Glycine max

<400> 4252

agcttaccaa ttctactaaa ctccagctg ttgctcattt accctcttgt gctcgcttg 60
 tatgtataat tatgcacaaa atcgctgccc ggctctatgt ttaatacct gcatataata 120
 ccatggtgtc ttcttctaca atcgcacaa aatatttact tgtcatgccg gcttctcagt 180
 ttaataatca ttaacactct ttaattaaag aacgatgccc atttttgatt gcatgaataa 240
 atgaatcgga atccatccaa tgcttagaat aacttttcat gctgtcatgc atg 293

<210> 4253
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 4253

tctgtggtta tggaataatt gattatcaaa agtgattatc gattatttta acacacaaag 60
 aactccta ataaaggttcca aacaaaatct aatcgattac taaatgtagt aatggattat 120
 ctcgagccat aaagtcttta ttctggtgaa acttacatat gtaatcaatt attgaaactg 180
 ggaattgaat aattccgtga ttcttgccaa atttcaagta gaagtgaact atgtggctta 240
 ttctaact ttgtaattga ttattaaact ttggtattga ttattaaact ttgtaatcga 300
 ttacattata ttgaactcat tgctttaaga aactttgaga atcaatcatt aatctaccat 360
 gggttg 365

<210> 4254
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 4254

tgtagcaagg ttattattat ggttaatagt tggactacat tgtgagatac attgcaagtt 60
gtctataaca atagtttttg taagtataat ataataataa tgtgatgata tgaagaataa 120
taataatcta taaatgaatt gcaaattaca aattacaaat ctgtattaag tatcaccatt 180
aatagctgaa tgttgtcttt tttgttcttg caaaatagtt ttcttacgct tcttctgttc 240
aacatatatg tccatgagta attgatttct gcaacaactg ccttataatt gccaaacaat 300
aggaaaatca aatgttgaaa ttgagttaaa taagttgctg tagtaggctg actttaaaat 360
gataccaaca ttatagttat ttgcatttgc ttc 393

<210> 4255
<211> 414
<212> DNA
<213> Glycine max

<400> 4255

tattcaagtg acacagctag aagcctggct ggaaccttcg agtgacagca atcttgtacc 60
catcccaaga atgatttggg ttccaagatt cccaccattg gaaccaaccc aaagcttctc 120
catccatcgc gatcatcact gcttccagct tgtcctcttc cctaactgcc cataaccgaa 180
agtattgctc aatcttggta tccagcccat tggatcctca ccatcgaata tgggcaattc 240
taaattcctc caccgattgc cgttgtgctg tgccatacct tcatccctc cgctcgcta 300
aactgtatgc acatttgtcg ctggagattt tttctccac gccactgtca accttggat 360
catcccttcg atcgagctca gccgcgattc cactgcttcg cgattctct ccat 414

<210> 4256
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4256

gcagaggatn tttcaaactc ctcactttct tagatctctt ctctcagata aaactttttc 60
cctcttacca ttttcttacc gtctattcac acccagcaca cacaagagaa caagaagaga 120
gagacagaaa gagagggaga aagagaaaat caaaaaccct ctctttcaag gcatgtcata 180
gatcgtgttt atggaatagg gaggcaataa cataggagat aagatatata ccaagttatt 240
agaatcatat gtacataatt tgtttttag cacacatttc tgattccaaa atcagttgaa 300

taagaacttt actgaaatag gaggcagatt ctcatctgta gtaaaagtgt tccttctcat 360
attaaattag atgaacagac aaaattgtac tatgttttt 399

<210> 4257
<211> 398
<212> DNA
<213> Glycine max

<400> 4257

tgaaaagtgc aagaaaacga actacatttt ctgcattttt tgaaaaaaga gatgaactcg 60
ctaagcgagc atgctgcgct aagcgagttc atcagtactc attgtatata ggcgttctct 120
gaagaactcg ttgagtgtgc ttaacgcgct aagcgagttc atcctttgag gatgaacact 180
tatectcttg cttaattacc tgtggctaag tgaggatgaa tcgctaagcc caggttactt 240
agaaaatttt ttattgatag ccgcgcgcta agctgagctt tcctgggcca agcacgattt 300
gttgcgcat ccgctgagtt aagcgagctt cgctcgctaa gctcccaata cttagtgaaa 360
ttttttagga gttggtgccg ctaagcacia cctttaag 398

<210> 4258
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4258

taagctcttt caactgcaca aagctattaa tattngaaga gtatccatat ggaaccttca 60
cccgcgaag aactgacaa aaacttatct tctccttttt ggacaaagca tggcaagcta 120
ggggcaagta aattttcttc ccacagacc ttggatgcaa ctgtgatcgt atccccatat 180
aagctagatc ttgatgggta ttcaagccat ccttcgtctt tccttgaatg ttaaggagca 240
tcccaatcac actgtcacia acatttttct ccacatgcat aacatcaata caatgtctaa 300
cgtctagatc agaccagtac ggaagatcaa agaaaatgga cctcttcttc catatgcaac 360
tcttactttt atccttcttt tgggtttttc caaatataat at 402

<210> 4259
<211> 369
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4259

gtaaccgccc canaatggct atttccttat aaatagccgt gatgggggag gggtttaagg 60
ggttccaagg ttcaagagtt gatagaagaa agaaagaaga agaaacaaag atgaggcgct 120
accgaatcgt gactgtgatc attccctaca tcgttttctt gttctgtgtt cctcgtgcaa 180
caatcggtta gttttgtttt taaggattga gtatgatcta tgtaccctta ggggtcccct 240
ctgttattat gtgcatattc atcttctcca tctatcattg gtaatctcat tttttatttg 300
taaagtttaa tcttaactga tcactagttt cgtaaagttg tctttaaaga gattgaaagc 360
taataaaca 369

<210> 4260

<211> 386

<212> DNA

<213> Glycine max

<400> 4260

tatgtaaact ggctctctgt ttgtttgtta caaaccttaa ttaatcaatc agtttgattt 60
gatttttggtg tacaataatt taatctgtga acataatttg ttgatcgcat cacacgtctg 120
ctgaaattgg ttatattcaa acggtgcgtt aattaattag aagatttgat aattgatacg 180
tttgtgtact taaaagcaac gtatggcttt ttgtagtcga tctagttgaa gattttgaag 240
tggacacaaa cttcttatta tttaattttt gttttttata gtcgacagtg gttaaaaaat 300
gttattaaag ctctatttac tgaatgtttt tggtttatta gaccatgtat aaggcgatat 360
tgttttaaac atatccataa ttaatc 386

<210> 4261

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4261

tatcatagaa ggcaanaaaa aggtctttat aacgtcttcc aaaccattgg gattctaagc 60
cgcaatcgaa agtttggaac tcatgatccc ccttagtttt tgctctatcc aagggaacg 120

caaccatgtg tcagagcatc atggagtcta tgacaacaac gagtcgtgac gaagatggat 180
 ttgtgatagc ggcaaaacta tgtcagtcga tggagatggt gttgtattgt gaaagatgta 240
 agaaagaaga atccgtggaa gaaatgttat gacaaaaaaa tgatcatgat tacatttgac 300
 actctcttaa atatatgaat accatacata aattatcata gtagaccagt ctttaacttaa 360
 cctttaagat agataata 378

<210> 4262
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 4262

agaatcggac ctcagtgtga aaagttatga ccatttgaat atctcgggag cttccgttgt 60
 acattttcga gcgtctgtat atgagatgcg cctgaatcgg acatccgagt gaaaagatat 120
 gaccatttga atatgtcgag agctttcgat gtttaatttt gagcgtttag atataagata 180
 agcctgaatc ggacatcctg gtgaaaactt atgaccattt gaacttctgg agagcttccg 240
 ttggggattt tttaacgtct ctttatgtga tgcgcatgaa ttggacatcc gaattaaaag 300
 ttatgaccat tagaatatct caagagcttc cgggtgtacaa ttctgagcgc 350

<210> 4263
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4263

tnctcttttc ttctgttgcg cggggccggc cttccgtgga caaaactatt ggatgtgtcg 60
 cgatgttggg ttgaggcaac gtgctgggtg ccggcccttc tgggatcggg ggatagaact 120
 cgacatccct tcgagcatag tcttgagggt ctttgtggac ttcttcggct gttgaggagg 180
 ctctctttca agacgggaga agcaatatgg cccgcacct cctgcaagac ggggtgtgag 240
 ttattgggag gcaatccata agtgaagcc ggtcgggtga tcccagggtga gggctgccat 300
 cgtgccccag aggtcccttc cccgcctact atgttgaggg agatgggtgcg catt 354

<210> 4264
 <211> 399

<212> DNA
<213> Glycine max

<400> 4264

tagtatatgg acttgggtgt tgcccagttt catcatatct tccgtaatac ttatcacctc 60
tatcatatct aataattttc acatttatgt ctaattgccca ttttacttca ttgtagtaaa 120
tttctaaagc atccattgcc taagaaatct cgggcagtaa gtagacataa ccgtaacgtg 180
aataatcatc aataatgggtg ataaagtatt attcctttcc gaaagaacta acatcaaaag 240
gtccacaaat attagtatgc acaatttcaa gaagctgagt gcttcttgta gctcttttct 300
ttgtatgttt tgcttgtttt ccattaatac aaccacaca aatatttaga tccataaaat 360
ctagataagg aagaatttca ttctttatta atttttcca 399

<210> 4265
<211> 392
<212> DNA
<213> Glycine max

<400> 4265

tgtaggatta tggggtaccc atcacatgtg gtactatgtg gcggtcgggc gatggtgcaa 60
aacgattctc cacatccaca aatcacgtat aaccacccat ccctgttgc ccacctcaa 120
ctgagctcac gtactcccac gtagccctta tctcgttcc tctcaacgtc gggccccat 180
caatcctccc aagcttccac aacatccagg taattccaca tccaatcatc atggactaac 240
aaaaccaagc aaaacagggc aaaggcagaa aactctgccc aaaactcaaa ccaaaaatca 300
cagctttttc tcaacttaagg accccagtaa catttccttc gttccaattc gttaaccgtt 360
agatcgactc gaaaatttta ctgtaagtcc ct 392

<210> 4266
<211> 381
<212> DNA
<213> Glycine max

<400> 4266

taaagcacia cattgaccat gagctcttca tatcgccctc agtccaatgg ccagactgag 60
aatcttaata agaccattga gatgtatcta aggtgctttg tatttgaaca tctaagagt 120
tgggttacta tgctaccttg ggcttaattc tagtataata cttcctttca ccaaagcttg 180

ggcatgacac catttcaagc agtttttggg agacctccac caacgggtgat gcactacgag 240
 gttgatccta aagatcccgga tccactcaag gctttattac aactacgtga tcaacttttg 300
 agcaagctta aaggtaattt actaaaggct caacaatata tgaagatgca agctgataag 360
 aaaagaagag aaagagaatt g 381

<210> 4267
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4267

agcttctaca atctccccct ttntgatgat gacaaccctg aaatcaagaa acacacacac 60
 acacacactt tttcctagtc gatcactcac ttaattctcc atattctccc cctttgtttt 120
 tgagtttatg cttcacttga aattaagtta attacttatg tgagttcttg atttaatccc 180
 tatttctctc cccctttggc atcaacaaaa agccaaagtg cgtaacaaat ataaatcata 240
 catacattac taatcattca caagacattc attgaaaaat ctaaaccaat catgaagcaa 300
 gaaacatgaa tagatcaaat atataaaatc cacatagtca tataacacaa ttcataattg 360
 ttcaatcata ctatgcaaat aaaagaaata ctaaatt 397

<210> 4268
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 4268

tgtaagattt gcaagatcat cttccttgac aactccttga aaattattgc catcaatagc 60
 cagagatgac aatttagaga gtgatccaat actttcaaat ggatttccac tgaatttatt 120
 aatagacaga ttgagatata ttaatgatga aagttttcca aatgatattg gaagagcacc 180
 accaattaag ttgttggaag aatctagcat gtcaatattt ttaaaagccc caatttgatc 240
 tatcagattg cctgaaagtt gtgaactccg aactgcaagt gttgtgattc cctaggaaat 300
 acaaagagca agaatttcta aaagttcatt aacctgttgg ttgagtttga gatatgataa 360
 acctatctcc cttaagttgc agagattatc caaagaagtt ga 402

<210> 4269
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 4269

tagacaacac agcatacaaa ctacattaat tggatggcaa agtattttcca agaacatgga 60
 acgccaccca cctgaatttc tacttttagtt gacctaattgc aaaactagat gttatttcttt 120
 tttttcctac tcaagtcttt tttcccaaaa gagaaaaaat atggggtttta gcttgagagg 180
 ttttcatgag gtacatctaa gataacaaag ggaatttgta ctcaatcaaa tacattgaat 240
 aaaattctgc atcccttcat tttcataatt ttcttggtgc ttcaagacag gtacatccgt 300
 ggttgagct ccacatgctt gtcaaaccga aggtccaccc ttggtgagtc ttgccaaaat 360
 ctaggataaa tgggtcattg gtcattttcc 390

<210> 4270
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 4270

tgagggtttgg gtctcaaaac cagttacaac aatTTTTgaa gcgaaagaaa gataaaatct 60
 caacattgaa gtttgtttgg tcgtgggtgt ggcttaatct ccaaattcat ttttgaaacc 120
 aaccttaaac tatccacatt agtgaaactc ccaccatcaa tgatcaaaga gcataactac 180
 ccttgatga ggcacctgc atgaaaaatc ttttctcttt gactatcatc caattcaact 240
 gcttggtac ccaacatcct tctaactgtg aacaaatctc cttctaactc tctttcctct 300
 tgatgctcct cttcatcgt agatgggaaa gattttgaag aagattcact aattatttct 360
 ctatcctcct taagtaacat agtcttctt 389

<210> 4271
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 4271

ggacactatg aatactcagc tcgattggag cggatgggac agtctgcctc gtttttcacg 60

aatcaataaa tgattcgccc tgccctgtga cccacgggt caaacgtgcc gatccgcgac 120
ctaatttaaa agaattcgat ttataaaaa tacaatacaa tgaaattaag ttgaatacaa 180
atgtaaataa aatctcaata attagtcaat tacatcaata aaataaatat tgtcttaata 240
aaagaaaatc caagcaatac atctaaaata tgaaatttaa acatctccaa caacaaatga 300
ttccatattt gataatgttt aatgaattct gactttaata aaaatataat acaatgaaat 360
taagttgaat acaaatgtaa ataaaatatc aataatt 397

<210> 4272
<211> 361
<212> DNA
<213> Glycine max

<400> 4272

tgaaggtagc agatgatgag aggatggata aagagtgtag gaactctatc gcctgtgcct 60
cagagaaggt ctaaacattg aagagtaatc ctcaaataat acaaggtgaa aaatgcacac 120
acatggcctc tatttataga ctcatgtctg caaacaattg gaaggaattt ataatttctt 180
ttcaagattc acttgaatct gaatttgaat tgggtggagcc caattttgga gccgaaattg 240
cagtaattat tattagagaa tttcagttat ggttcagccc actaatacaa gacctgggtgc 300
aagagtttgg actaatagtg ctgatgtggc atgacgaatg tatagcatga aagacatgca 360
c 361

<210> 4273
<211> 380
<212> DNA
<213> Glycine max

<400> 4273

ttggagaatg atttctatac aaaagttagt cgtataaagc gactaacagt gtgttacatt 60
atggcatttg cctatgttcc tgatgcagga ggcttgagga agaagatttt ggaggaagct 120
catcattcct ttacaccac tcatccgagt tctactaaaa tgtatcaaga cttaaaggag 180
ttttattgga agggagggat gaaaaggatg tagctgaatt tgtatctaaa tgcctagtat 240
gtcagcaagt taagacagag catcagaagc ccgtaggttt gtttttagagg attgatatac 300
ttgaatggaa atgggagaga attgtaacac cccagattct agttcaaac attgctttga 360

aaactctcgt taattatattt

380

<210> 4274
<211> 379
<212> DNA
<213> Glycine max

<400> 4274

tctaaggacc accgaaacga attgcatcaa ttttcttctc cagtgaagca gggtcaccca 60
ccaacaagtt tgaagcaacc ttcatttctt ccatttgcaa atttttcccg caaacagAAC 120
tagaaaatga taccctttta cgaaaaagtG tcataataat taataaatTC ataaaaggaa 180
aagaaaaata caaactttta catatagatg tgcaatacaa atgagggTct tgaattatta 240
tttacctgga acctacaaat atagttattg ttgcccata tggcccttga ggctctgaat 300
gggctttcga ttaaggTTTT tggggcagaa cacaatccat aagctagcca cgacactttc 360
gcttggaaCT caaacttct 379

<210> 4275
<211> 415
<212> DNA
<213> Glycine max

<400> 4275

atgcaatgct caagcttccg ttgccgagag catcgatgat ttacgcattt cagcctatgg 60
tgccctttag cttatgacaa gagccggacc ttgttctttc tttcgtgcac atccctgtct 120
aaagttccaa gtgctttctg catcaccac atccacgatt agccaccaca aaccatcatt 180
gttctccatg gaaaaccac accgagagga acccttgaac cgaagcaca tttccaactt 240
ggcttgccggg ttctgtagag aacgaaaacc ctaatctgat ctttcgcttt ctttcgaggt 300
aaccatggct ctatgcttgt ttcttgtag tttcatcttg tctttgcac ttttctaact 360
ttgcaaccac cattgcatgt cttatgcttg ctttgaaaaa ccttacaaaa agaga 415

<210> 4276
<211> 397
<212> DNA
<213> Glycine max

<400> 4276

tggtgaacct ctcccattac tcatataatg tctctccaag ttgttgccctt attgatgcaa 60
 gctccattgg agcttgtaag cctaggatct tcttcatcaa tggattcctt tgcttcttgg 120
 aagatgaatg gcagtggaat gaagaaggaa gagagagagg agacgccact tcaaggagaa 180
 gatgagtcta gaagaagctc accaccatat gagggccatgg ataaaagctt ggaggaagaa 240
 agagatgaat gaagggagag ggagagaaga gcacgaaatt ttgtgctcca aatgagcttt 300
 gaaatctgaa gtttaatat ccaatgatca aagttgaaaa aaatgcacac acatgacctc 360
 tatttatagc ctaagtgtca cacaaaattg gagggaa 397

<210> 4277
 <211> 394
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4277

ntaattaaat ccataattnt gttttgttgt tgagtgtgat tttttt^oictg gtatccatga 60
 cattgggtgtg aagtattcat ctgatgacta attttcattg aaaaatctga ctaatcactt 120
 ttagtggagt atctccttcc aactatgctt tttttcatct ataatgttcg aaccaaacac 180
 cttacttaag ggggatgtgt gtatgatttg aaaatgacta agttgggtat tatgttatgt 240
 gcaggaccct ttatgtgagg agcaaaacag attaggttca atgcctccca cttgccacaa 300
 caagtgcaac cagtgtcatc catgcatggc agtgcaagtt ccaacctcgc ctaaccatga 360
 acgagttcac ccaggtcttc ttcccccaac tgct 394

<210> 4278
 <211> 382
 <212> DNA
 <213> Glycine max
 <400> 4278

gaaggagtac aagatttggg gttctgtcta tattctatct tctcttggtta catctttctt 60
 ggaaaattat tccgatatgc agaaaaagtc ttttttaaga atatgacata tcatacattg 120
 aatacacctt tcattatata tcagattaca gtaaaaaaag atattattat ggcccaatta 180
 tcttaccttt taatgttgat aataactctc ttatatagat agatagtata atgtatcttt 240
 ttttatataa aaggagtgtc aatatacaac agagtgtttg cgaatgtatt gttggattac 300

cataatatcg atatagcgac ttgctggtat ggataaataa tgtattttaca ataattaatg 360
agattgatat agggaaagaa aa 382

<210> 4279
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4279

ntgagccaaa atcctgactc accataaacc ttgaccctgg tgagaatgtc aatccttacc 60
ctcggaagca aaaaaggaag agaaggaaaa tttccaatca aaggaaaaaa gagaggaaag 120
gaaattccca atcaaagagt gggagaaagc aaaaagaaaa gaaagaaaat tccaatcaa 180
agaatgggag aaagaaaaaa aaaagagaag gagaagaagg aaagaaagct cctgggtcaaa 240
gatcgaaaga aaacagaaga aatatgcaga gaggtctttg gaccagacaa tatctgaaca 300
atacggaatt gtcaccaa at gaacaaaaga aagaaaagga aaccataacc taaaagtgg 360
cttctccctt tgattaccaa ccaaaatcat gtgcattcgt gacttg 406

<210> 4280
<211> 391
<212> DNA
<213> Glycine max

<400> 4280

taataagtgc atatgatgta gctccatgta gagcttgtaa gccttggatc ttcttcatca 60
atggagtcct ttgcttcttg aatatcaatg gtagcggaat ggagaagggg gaaaggtgat 120
tgagagcgcc acgtctagga gaagatgagt caagaacaag ctcaccacca tatgaagcca 180
tgataagag cttgaacgta tgagaagata aatagagga gagggagaga aggggcacga 240
aatttatgcc tcaaagag tatgacctt gaagtgta tttctcaaata atcaaagttg 300
aaaattgcac acacatggcc tctatttata gctaagcgt tacacacaat cggagggaaa 360
tttgaatttc tattcaaatt tcacttgaat t 391

<210> 4281
<211> 380
<212> DNA

<213> Glycine max

<400> 4281

tgtcattggt ttagacatga ttggtacatg atttgggact aggattcaat ttgggcaaaa 60
ttggatgagg gaaagagtgg ttttcgaaat ctgcacttta tgcagaattg tgctgttgaa 120
atgtgcagca caattttgta taagtgcaga aaaatgcttg tgtatggctg gttgtgaaag 180
ggtagtacat atggggttct agatatttac tagcagatcc caacgggtcaa aatgtagact 240
tatgtactag agacttccag taaaaatfff gagtcgatcc aacggttaac gaattggaac 300
gaaggaaatg ttactagggt aattgtatgt gaaaagctgt gattttgagt tgtgttttgg 360
gcagagtttt ctgcctttgc 380

<210> 4282

<211> 361

<212> DNA

<213> Glycine max

<400> 4282

agagatgagg aagtgttgaa aggtgttact ttctgctttt attggcgacc acagagtgggt 60
acctggagat atgtcgcggg ggtcaagata ccttgtggac atcaggtggg gtgctattgc 120
ccataaccaa gcttgaccaa tccccagcca acccaggcat aatcggtcag tgagaacctg 180
tgatgtacct aagcaggcga gctcctggca gacatcagat aaaatgaaaa caagaccaca 240
aagcatggag gcttgtggtg gctggccagc tgtgaaactt gatagatatg tggattgtgg 300
cctctgggaa tcgattacca acggtgagta atcgattaca ggcttaaaat tgaggacagg 360
a 361

<210> 4283

<211> 387

<212> DNA

<213> Glycine max

<400> 4283

tccatcacag ttggaagcaa tagagggaat gcactatcta tgacggtagg acgagagtga 60
gatagagtag tgtgggcatg acagagcttg caacagactt tagaagtcac ggcagactga 120
agggcgaaac tgagtaaatt aaaggcacat atgtattcga tcaaagagtg aaaagtgaaa 180

attaaagtaa ttaaaaaatct aatgacttca aagatgggtt ttaaaaaatc gtagtagtca 240
 agttagaaac aaagatgggtt tttataaaac ttccttcgta acattcatat caaagaaggt 300
 tctataaaaa ccatcggttaa cgccttaaaa tagttggtat taatttaaaa aatgtcacca 360
 catgtttttac tacattgggtt tttcgat 387

<210> 4284
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 4284

ttgaaaaaga taagctttga aaggaccctt tcaatgagta aagaagaaca aactatcacc 60
 ctaagtcagc cacaaccata agcatcaatg gtgcccttga ccttacattt catcaaaatg 120
 gcataacata ttgattctgc aaaaggccaa tggccacat acgacctttc acccaactat 180
 acacctctaa ccatggcaaa tttttcagaa agtgaccac taatgactca gcaactagt 240
 gtgcaacaat aagctcaacc gcagatcttg ttcagaacat gtctcagccc cgaaataata 300
 aaccttgctt ctcaaggaaa attcttgac tatctagaca ctacacactc ccttctaatt 360
 gggttgtaag gg 372

<210> 4285
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4285

attgaacgtg ttgagccgga tgatacctcg caanncanga cnanaagagn ctactcagt 60
 gatgggatag ttccttcaaa cataaccaca ctttcgggtg gattagaaga tttatgtgct 120
 gagatttacc tagcgaacga cttgtacgag atctatgttt cttacctcct ctagtctggc 180
 ttacgctttc taaggaatgt ggtgctttgt cacaatgatt gacccttcct cggtagaat 240
 tagctcattc atgggccatt taggccttgt acttatggca ggacacttga aataatccag 300
 agctagccat gagaccggag ctgccttagc agaaaggccc ttctttgggt tagggcaaac 360
 ggtcagagct gtattttaaa atacgctttc attaaaaaat ctacagacta tacgttattt 420
 atgatcgagg ccttgatatn cagtccatcg ttatggggca tateg 465

<210> 4286
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 4286

tctaacggtg aatttttgtg attactatat gggcgtatat aaaatttgca atcatatggt 60
 caccgacacg acattttctt tgtttggtga attctattat atatcttatt ggccccctctt 120
 gtagtatatc ttcattctgtt caacaaataa tagtattcat tatttagcat tacagttatt 180
 aaaacgttct tgatctttct gctgaacaca atttctctat aaagacaaga tagattcttt 240
 ggacctagat aaaagtaaca aatttacaaa agggccgtgt ccttggtgct tttatttata 300
 tctttcctta ctgatatatt acaacataag tcttattaaa aggacaagat tttgaagtat 360
 gctacttac 369

<210> 4287
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 4287

tataacttac aagccttcaa ctaacttatc cgttagtttt atcaaacata accatactga 60
 aggttcatta gtttttttat ttcatatatt tactagcaac attctaaact ctagtttcca 120
 caacttactt gtttagcttc taaaaattag tttttaaaca tatttacata attctaaaaa 180
 aacaaattat gaaaatataa ccttttactt atagagtata atttcaaaaa ttttaaattt 240
 agtcatgtat acaagagcat ctttagaaga aagctttttt tttcttttat aaaaaaaggt 300
 caaagctgta tttaaaaaaa aattcaaaaa aaaaaactca catatatacg tcatcattga 360
 tcgaagcctt actatcaaac caaaaattag gtgaat 396

<210> 4288
 <211> 120
 <212> DNA
 <213> Glycine max

<400> 4288

tgtacgtgag caagattgtg gaggatggcg taacatcaac aacaaatggt ggtggcgagc 60

ttcccaaggg aggaactggg tggctcattc aggagagcac caaagaggat ctgaaggagg 120

<210> 4289
<211> 100
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4289

tanagtatgc ccgagtcatt catccctata agatgttggt gaagtattgg cgatcagaat 60

tgccatctct tggactatag ggctgaacca agctcatgct 100

<210> 4290
<211> 176
<212> DNA
<213> Glycine max

<400> 4290

tcgaactcta gcatgtacat cgtgaaactc aaggctctaaa tacaatttgg aagtggcatt 60

agataggatg cccaagagca agggaccaga aaaatttttaa accaacaatt aaggcaaacc 120

tattctaaag ggacagaaaa aaaatgattt tgggttaagt aaatgaaccg gctatt 176

<210> 4291
<211> 269
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4291

tanacatggt tttaatttct caaatttagg tcattttttt tgtctttcaa atttaaattt 60

atTTTTTTtag tctctagggt tttaaggggt ctttgtagtc cctcttggtta gtgtgggtca 120

aattgaaaat aatgagtctt ttttttacca catttgagca atTTTTttaa ttaatcacat 180

aagtatgtaa atttccaatg aggtacgaga aatgagtgat ttgtgggttag gaacacgatt 240

tcatatgtga aggaatcatc cctgctcgt 269

<210> 4292
<211> 382
<212> DNA
<213> Glycine max

<400> 4292

aggatgatgag taattggaga aaatttttga atgctgttta ggtgaatggt taaagtaaag 60

gtgaacgatg aaaagaatat ttgaaggaaa ataaggaaag ataatgtgtg aaaaaaaaaat 120

ttaagttaa tgaaatttga ttttgatttg ttttttaaag aagaacagaa aataagtttg 180

atcacttttt gatttgctta agccaatggt tgacagagag aatttttaac aattagaact 240

gaaacaattt ggtttaggag cttgagctta agccattttg ttttatacta aggccaaaaa 300

caaatagaat tcaccctttt gctcccaatg ggctaggctt aagccaaagt tttcaagctt 360

aaaaatttac gcagaaaaaa ag 382

<210> 4293

<211> 368

<212> DNA

<213> Glycine max

<400> 4293

tggttgcaaa aactttgttg gcgaaggaca agaaattgta accgacacac tcgaagaggt 60

accacaatgc gatggcataa atgagcaccg caaccgctcc acgccaattc atccacaaca 120

ctacatcagc aactaagcct ttgtcgagaa cagcatgaaa ggatgagaaa ctaaggcaat 180

gccaaagattg ttagaagaat gaagaatgag ggggttagaa tcatcaatgg caggcttggc 240

cttgaaagaa aaaaaagacc caccagcca tccgaagggt tcctaaaaaa cgaataataa 300

ggagggggcct ggccattatt ttaggacctt attatcaatg gacttcaagg gcctgagaga 360

aaaaaaaa 368

<210> 4294

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4294

tagatgtagc ttttgggaga aaaagagcat gccaaactagc ttagatgtaa tacttggnga 60

aaaaagagaa taccagtcca attcctatgc caaatacaag tctcccaagc accaatacag 120

gaaaattagg agctaattgct gttacaagag ctccaacaag ataaactact gcagctccaa 180

tcagctcctt tcttctacct aaatataaaa tttgtcacag cagtttcacc agggaaggaa 240
 atagcgaaga ttataactga caaaaaggga aattacctaa gaagtcagca acattgaagg 300
 ccaacaagga gccaatgaag gcaccataca atgatccact agtctggaaa agaagcaaatt 360
 gccattgccc cagtttatat tcaagatca 389

<210> 4295
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 4295

tagagtttgc ggaagtccat aaggatcata cggcctttac cactcttttc actactacgg 60
 aatatggatt caagggagtc catctttgat ctctttagg aatgccaatg gtgactaaag 120
 gtactatgtc attgttgttt ataaggtgtt attgttgga gtacgtatta ctagcttgag 180
 gtcgagccat taccttgaca tcgtagcat taaaaaaga tgtttgtgtg agctgacgaa 240
 ggatattatg ggaactcaat tggatgtcca atgtatctca ctacatcaag gccaaacatt 300
 gtatttttgt aaaagaacaa aacttgaatt tttgttgcat ttcaagagcc attgttaaac 360
 atttcaacat caagttctat tattt 385

<210> 4296
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4296

ttgagccaat tcaaacgaca ataacttttt actcggttat ctgantgagt cctggaaaat 60
 aacgagacgc tcgaaattga atgttgaacc tcagagcgaa ttcaaaccac aataactttt 120
 tactcggatg tgtgattgag tcccgtata tatcgagacg ctcgaaattg aatgctttag 180
 ctttgagcca attcaccgca caataacttt ttactcggat gtctgattga gtcccgcaat 240
 atatcgagac gctcgaaatt gaatgttgaa gctctgaacc aattcaaacg acaataactt 300
 ttactcggga tggctgaatg aggcccgcaa tatattgaga ccctcgaaat tgaatgttga 360
 atctttgagc caattc 376

<210> 4297
 <211> 307
 <212> DNA
 <213> Glycine max

<400> 4297

tgcttctata gccaaaagta catattcgat tgtattatta ataaagagga gtcaaatac 60
 atctaaacag tgttttgtcg tttatattgc tgaaattgat aagacagaca aagggttcag 120
 ttctcaatgg gaaaggaatc attcagccat aggacacgca tataggccaa ctattcttat 180
 ttaaattaat gattttcatc atttggctaa ttgtaccctt ttaacggttt attcaagcat 240
 aagacagtaa atggggccata ttaggcatgc tcttattatt taaaaataa accattgaat 300
 ttttgac 307

<210> 4298
 <211> 202
 <212> DNA
 <213> Glycine max

<400> 4298

tcagaggaag agaaagggc atagaagtgg cgaggttgat acgggtaggg tttgggtttc 60
 aaggaaatgg gtatggcgaa acgagaaaca cgacttcagt gtttgaaaag aaagagaagt 120
 tgaagagaga gaaagtaaga gaagcatggg gaagagagga actgactgag aagaaacgag 180
 gctgtagaat ggtctcttgg ta 202

<210> 4299
 <211> 314
 <212> DNA
 <213> Glycine max

<400> 4299

cgtggaagac cgatgaacta tgaaggcgaa tgacacatgg aaaacgtcga acctgtgctc 60
 attcatcacc gtaaattgat ctgaaacgga ctggaagcgc ctgagacat actgacttta 120
 ctgaatcaac actatcgac aaatgcgaac gagagagaat tgtctaacgg gctgaaccct 180
 ttgacttcga cttgctcccg tatgtatagc aaactagggg agatgcttga cgaccagctc 240
 gctcagacga gcagggttgc ttactccata aacaacagcc atcgggagga atcttcttga 300
 gggcccaagt gggc 314

<210> 4300
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4300

gtattggacg ataactctgt cttgtgagan aagattttta aaagttctaa aatcacaact 60
 caatcctctg tcttgtaata cttgtcttta cacaaatgaa tttgaccatc attaataaga 120
 tgcttttatgt gcgatgacat caacattaat attatgttgg ctgtagaaaa taacttaatc 180
 gaggcataca ccgcaacaat gaagagggtt tgattatcct tttagaactg caaagagata 240
 aattgagatg atgaatgtaa gacaactgat tgcaaatgc aaatgttcct tgcaaagacc 300
 ccaaagggtg ggcagaggaa gacctctgtc attcacaaca aaaggcataa gcttaatgct 360
 tttccaaaaa ggactatttt attgttaatc tacc 394

<210> 4301
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 4301

cactatccac tactcaagct tgctctacat ttacattgat gtttgtatth atgggatgag 60
 gttgtacgtc atttttgttt taagaatagt atcccactgg taaaactaac tttccaaatg 120
 tttgccttcg caggaaatgg ccccgaggaa gcttgcttca aagagggtcca ggaaggacaa 180
 ggcagcagaa ggaactagtt ccgctccgga gtatgatagt caccgcttta tgagcgcggt 240
 acaccagcag cgcttcgaag ccatcaagggt gtggctggtt ctccgggagc gacgcgtcca 300
 gctcatggac gacgagtata ctgatttcca ggaggaaata gggcgccggc ggtgggcacc 360
 actggttact cccatggcca agtttgatcc agaaatagtc cttgagtttt atgc 414

<210> 4302
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4302

actcaagcta gtagcacatt caaaccacaa taactnttaa ctcaagtatgt ctgattgagt 60
 ccggttaattt atctagacgc tcataaatga atacggaagc acgtaacaaa tgcaaactgc 120
 aataaatttt aactcagatg tccgaatgaa tcccgttaata tatcgagaca ctcgtaattg 180
 aaaacagaag ctctaaacaa attctaacga caataacttt ttactcagat gtccgattgt 240
 gtccagtaat atatcgagac gcttgaaatt gaaaactgaa gctctgagca aattcaaacg 300
 acaataactt ttactcgga tgtatgattg agtcccggag tatatcgaga cacttgaaat 360
 tcagaacaga agctctgagc aaatttaaac gacaataaca tttaac 406

<210> 4303
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 4303
 tctcatcctt agtaacagct actactggac acacacttct acatattgtg ttccctctct 60
 gaatttcgga agtaatagtc ccttgactac tcttctaatt tctttccctc taatcctaag 120
 ggatggactc tacacttttt gggatatctt ttacttaagc tccatagatg aatttattta 180
 catgcactct tttagatttg aatctactaa ctccacctag agcgttttgg ctatagaagt 240
 tccttctaatt aaggggttaa ttatctcact tgacattacc ctcaactttt ggcacttatt 300
 ccttgcaatt ttctccttca aatttgaaca atttatatag tgatatggga ctagtcgttg 360
 ttgtgaccat tggacgatga attcaacatt caaatgt 397

<210> 4304
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4304

ntgcttcttg ctcatgtagc gcgtctgagc agtcacttgc tgaatctccc tcgatcaact 60
 tcacgcactt gcgaacaacc aataagttgt actcgcatca agatcctttg agtttctcta 120
 acttccgcgg tggctctagc tgtggctgtg ccaatgggtga tcaccgcagc ggcgtctgtg 180
 ctagtggtgg cagtggctga ggtcgaggag gcagctgctt cgtgaacttc caatttcaac 240

tggtacaagt atggtcacac tgcctatgtg tgccattatt ggtttgaaac aaactatcaa 300
 cctagttcat ctcttgttct tcatgatcca acctcttcta actatggacc tcattctcag 360
 aacaattttc atctggtcag aataa 385

<210> 4305
 <211> 350
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4305

ntggagtttc caagtgccaa ttcgttttct tctttagtcc agtcttcttc tggcttcaat 60
 tcatcagtgg gctttccttc tgtgtccagc atcttgggat gttcccagcc tttgatgaca 120
 gctttccagg ttctgctatc cagtgatttg aggaaggcca ccatccttgc tttccagtat 180
 tcatagttgg gtccatctag gattggtggt ctgttcaactg gtccctcttc tttctccatg 240
 ttcatcagaa tttatctccc cagatctcac tctgtgattt cgagtgtgag ctctgatacc 300
 aattgaaatt ctgataccag gggacagatg tcgtaccgga tgtcacgact 350

<210> 4306
 <211> 386
 <212> DNA
 <213> Glycine max
 <400> 4306

catcttctct tgagtgcgtc acatttgaat tctagctcca tgggtggtgcg agccttggac 60
 ggtactcgtg aaggagagat gggggaaatc gacattccca tctctataag cccccacact 120
 tgcaatgtgg cgttacaatt cataggcata aatcctgcct atagggtgtc tcttggggag 180
 acctctgatt catgcgccag gagtgggtcca ctaaacactt caccacaaat cgaagtctgc 240
 agtgggtgga cttttggtga tagtatcggg tgaagaagat atgtcgggtga tctgcccctc 300
 ctctgccccca tacgtagaag cggcagaaga atcattggaa acggctttcc aatccttcga 360
 ggtggtgagc tgcgcctctg tggaac 386

<210> 4307
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 4307

ctggaaggat gcttcaatgg aggattatat agaggggttca tgatagacga tatgggggtgg 60
agtcacctac aagttgatag tgaattataa tgagggggga ggaacgtata acttctgaat 120
tgtgtctcat aagactttcc ttcattcagag ctacatctag tgtttcacat gcttctatta 180
taaactaagt agcttccttt gaaaaccttt ctgagaaaac ttccttgaga agcttctttt 240
gagaagactt ccttgagaag ctaaaactta gctactcaca cccctctcat tactaagctc 300
acctccttga gaagcttgct tgagaaaata cctagagaag ctagagctta gcaacacaca 360
cgtctctaata agctaagctc acctccttga gatgag 396

<210> 4308

<211> 383

<212> DNA

<213> Glycine max

<400> 4308

tcttagtttc agatgatgca gatggggttg tagctatctc atgcactcct ctaatgacta 60
tggeatcatt tctggcgcta aactgctaag agttggaggc catcttctca attaaatatt 120
tagcttcaac aggagtcatt tctccaaagg ctccacctct ggcagcatct atcatacttc 180
tctccatatt actgagtcct tcataaaaaat attggagaag aagctgttct gaaatctgat 240
gggtgggagca actggcacat agtttcttaa atctctccta gtactcatac aggctctctc 300
cactgagttg tctaatacct gagatattct atctgatggc tgtgggtcctg gatacacgga 360
aaaaatcttt ctaagaatac tct 383

<210> 4309

<211> 340

<212> DNA

<213> Glycine max

<400> 4309

tttgggtcaat ctcaaaagtg gtgtcttcat gctgcaaatt gatgggttct gagtggaaaa 60
tcctaatttg gttaagcctg aaattttgca gcatttgcaa agcagattca aattaattga 120
agttatgtac gagcactgta gcttttacia aaataagcac tgcagcttat ttaaggcaca 180
aattctgcag catctgcagt atgtgggtgg aaaaagggtg ggagtggaaa tttaaatgga 240

<213> Glycine max

<400> 4312

tgggttcgagg tactcaccgc ttgaagatcg aagaacgtat gaaaacgaat gaagaacgtc 60
gaagaacggt tcaaaccttt gcgagattcc tcacggaaaa cgttacggaa acgttttcgga 120
agcgccctcg cttagatttt cttcacggaa ataatttttc caagcaaatt cgaaagagag 180
agaagtgcct aaagggctgg actccttttc ttcttcattt tctcccctat ttatagcaaa 240
ataggggaga tgcttgccgc ccagctcgcc caggcgagct cagctcgccc aggcgagctc 300
agctcgccca ggcgagcagg gttgcttctt ccagaagcaa cagccttctg gaggaacctt 360
ctggagggcc caaatgggcc tgggtgctat ttgcaccc 398

<210> 4313

<211> 397

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4313

ntactatgca gagaatatcc aaggaaaata ccttcattctg acttagcatc aaattttcct 60
aagttatctt ttccattatt taatacaaaa catttacaac caaagatatg aagatgtgag 120
atgtttgggt ttctgccatt gaacaattca tatggagttt tctttaagat gggctcttatt 180
aaagccctat ttaaaatgta gcatgcagtg ttaacggctt cagcccaaaa atatttttga 240
agaggtgtat catttaataa agttctagca atctcttcca aagatctatt tttcctttca 300
acaacaccat tttgttgagg ggttcttggc ccagaaaatt atgcttaatc cctgcttacc 360
acaaaataat tcaattttta ttttcaaact caccocg 397

<210> 4314

<211> 403

<212> DNA

<213> Glycine max

<400> 4314

tgattatcaa ttgtgtgctg tgttatggca atcagttgat ccggatattt tggatattct 60
tagatcattt aaaacgagtc gttctttttg gaagaaagct caagaaattt ttgccaatga 120
tattcagagc ttatttgatg caaccatgaa agttacagcc ctcaagccta ccagccatga 180

<210> 4317
 <211> 316
 <212> DNA
 <213> Glycine max

<400> 4317

ttttctaaac ttttagtttg attaccaaga ctaagtcttt ccttactaga tgattaagag 60
 gatgcatatt tatgtgtgca atcctaagat gccataaacc attcttattt gtagtatgct 120
 ttgacacgtt gagcaagtga ttaagatcac tctttccttt gtttaattat gcaaacatat 180
 ctttaagata gaaaaaatca atttgcaact tcatacgttc agcatagtga tcctttttta 240
 tatttttaaaa tttagtttgc atagacttgt tatcatccat gtttaaagaa atagtagtac 300
 aattacaact agtggc 316

<210> 4318
 <211> 345
 <212> DNA
 <213> Glycine max

<400> 4318

tggagggatt gatggggacc cgtgttgag aggaactatg ataagagcta cgtgggagta 60
 cgtgagctca gttgaagggt ggcaactggg gatggtggat ttatgtgtga tttgtggatg 120
 tggatagtcg acttgcacca tcgcccgaacc gccacctagt accacatgtg acgggtaccc 180
 cataatccta caagcttgaa gtgaggaagt gtggaagggg gagacttcct acttttattc 240
 gttgaccata gagtgggtacc tggagatatg tcgcgggggg caggagacct tgtggacgtc 300
 aagtgggggtg ctattgcca aaaccaagct tgaccaatcc tgacc 345

<210> 4319
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4319

tggattnttg cttcttctct ctgatactg caacaactca aaatcacaat tcagttccag 60
 tcatacatat tagaagccac agcagcttcc acagttgagt gaaaagcaca aagaagcact 120

agttaaaaat ttgagtgaag ggcacaaaga agccatagca ggttctgcta aagttagaca 180
atgaaatacc ttaagctttc ttgacctggc ctctgcttta gcattttcga ggtttaccca 240
agcttggatt tttggttctt ctctctgata cctgcaacaa ctcaaaataa acactagtta 300
aaaatttgag tgaaaggcac aaagaagcca caacaacttc cactaaagta cctcctcagc 360
ttctacggct accgctt 377

<210> 4320
<211> 332
<212> DNA
<213> Glycine max

<400> 4320

tgaagaggat gatttaatgg aggaaaagaa agacttaaga ggggagcacg aaattgaagg 60
aatgaaagag ggagagaagt ggaactttga agtgtgtctc ataagacttt cattcatcaa 120
agttacaata agtgttacac atgcttctat ttatagacta agtagcttcc ttgagaagct 180
ttcttgagaa aacttccttg agaagtttct ttgagaaaac ttccttgaga agctagagct 240
taactacaca caccctcta atatctaagc tcacctcctt gagaagcttc cttgagaaga 300
ttcctaaaga agctagagct tagctacaca ca 332

<210> 4321
<211> 397
<212> DNA
<213> Glycine max

<400> 4321

tatccttatg gcttgcttcc ggacttcacc ccccggtcca ccccggaaga gttaagccaa 60
gcccccttctt ttgaggggca actccacca tatgaagagt atcccgggca agacgatggg 120
gaaggagata cccatcttgg cccctgctc cacctcaaag atccgtcccc gcatgaacta 180
ccccaaccaa acatagtccg tcataccccg gcctcaccca caccctaaaa gaatctattc 240
cctttgcgga agataaggga aagattgagg tgcttgaaga aagggttgaga gcagtcgagg 300
gcctcggcaa ttagccattc tcggatttag cggatttatg tctcgtgccc aacatcgta 360
tccctcccaa gtacacagta ccggactttg ataaata 397

<210> 4322

tgaacgagcc	tttggcgatc	aaactcaaac	ctcagagatg	aagacacaag	tgcaaggcta	60
attcagttgc	gcaagaaagt	cacacacgca	ggagacctgt	tgtgcatcaa	gggaggtaaa	120
ccaagaagat	ttataccaat	gagtcataag	ccattatata	agtaaaccta	acatcatact	180
ttaatccaaa	atcttaaagt	tcaagtttat	gaatcttctc	cttacttata	tggtttctcaa	240
tttttccatt	tctacttgat	gtgagacttc	acctcatact	tgtactttta	caatcatttc	300
atcaagtgtg	agtctttttc	acatgttagt	ctccctctcg	agcggaagtc	attatcatcc	360
atgagtattc	catggtgacc	attaagctca	tatgc			395

tatggaccaa	aatgagaaan	atggatcatt	tacagggact	taaaatgaaa	ctttnttaaa	60
aaaattaagg	atttatttga	aatttcctta	attttaagga	taaaaatgac	attgggatac	120
aaatctagag	actatagaga	gaaaaagaga	tgggagacaa	aaaaatagat	atagaaagag	180
gaaagaacaa	gaaaaaagag	gaggagagaaa	agattgagag	aaaaacaaga	gagaagcgag	240
agggaggagc	atatgaaaaa	aaaaacaatt	ttctactttt	ttagatgaaa	tttgaaattc	300
tataatttta	ggtaatttaa	atacttcaac	aaattattag	aatttcaa	atttttatta	360
tctaaaataa	aacataagt	a				381

<400> 4324

1845

cacaaaaaag ttattagtga caatttccaa cattatttcc aattactggc tatgaaatat 180
aagcatagaa taaacaagtg ttaatacctc aaaaacacca ttagaaatct ctaagatgga 240
cacatcaaat gttccacctc caagatcaaa aactgcaatg agaccctcct tgttggtcat 300
cccataggaa agtgcagcgg cagtgggctc attgatgatt ctctgaacat caagaccagc 360
aattctaccg gcattctttg ttgctgctc ctgagcatca tt 402

<210> 4325
<211> 315
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4325

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aaatggaagg ccattgaatg ttattcttgt gggaatactt tgatgagata gcttgaaaaa 120
ctagcattcc aaacatttta atgtcagctt gttatagcat gatgtgcttg ctactatttt 180
tgagttcttt gacccttcga atggcctaac tatcttttgt tttgttcata agagcttggt 240
ggaattctat catgggcttt tgagcactgg tctcatgtca tttggaccac tacaacataa 300
cctatcttca aagca 315

<210> 4326
<211> 384
<212> DNA
<213> Glycine max

<400> 4326

tctttaggac cttgaacaag caatttactc ctctttcaga accatgctat gtgctcgcga 60
ctgggtctctt tcttccctcc gcaacttgag ttactattg ctaccccata gagctccgcg 120
aaatttggtc cggccatact cttccttgcg agccctcttg gtctcttggt caagggctct 180
tgcggttaatt tcattctctt cccgtaaccc ggcacactcc ttccgaacgt gtgtagcggc 240
caacatgatc ttctccttg caagttttgc ctttcctaac tcgcttttga gagcttggac 300
ttcttcgtcc tcttcggtg cttcaaaact ctcttcgctg acgactttta acttggcgag 360
ccaatctaaa cctcgatat gaac 384

<210> 4327
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 4327

tgagatgagg aagtgtagaa aggtgaaacc tgtgatgtac ctgtgatgta cctaagcagg 60
 caagctcctg gcagtcaaca gataaaagga acaaagacca caaagcaagg aggcttgtgt 120
 ggtggctggc cagctgtgaa tcttgtgtga tatatgggtt atggcctctg gtaatcgatt 180
 actaagggtg ggtaatcgat tacaaggctt aaaaatgaag acaggaggct aagatgggtct 240
 ctggtaatcg attaccaagg gttgtaatcg attaccaggc ttgaaaacga ggtcagcaag 300
 ctatgggggc ttctggtaat cgattaccaa gggggtgtaa tcgattacca agcttagaat 360
 tgaaggcagc aggttgtaga ggctctctgg 389

<210> 4328
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 4328

tcttgtaccc ccgctccctg cagtatatac acccgatgca tcttccttcc aaatccactt 60
 gtcttctcga tccggatgga tgctgatacc ttctagatct tctaagaact ttacagccat 120
 ctccatcaca ccatcgaaaa gttgccttct ccatttaaag tctcattccc aacctatagt 180
 tgtgaagttg cccatcatct ttatgacatg ttgttgctgt ttggaaatgg agaaaagtgt 240
 aaggatatttc aacttaagtg gtactccatc ctcttccat ccacccctccc aaaatttgtc 300
 cttttctcca caccctactt tccattttat cctctatcg aaaccgctgc catctgcatc 360
 taaaggatct atgatattta tat 383

<210> 4329
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 4329

tgaaagtgca taccacacca tttttcatag taaaacactg gtaatgtgtc tactattatt 60

<400> 4330

<210>	4331
<211>	334
<212>	DNA
<213>	Glycine max

tcatacaatt	ctcaactctt	ttagccattg	ggaatgcaa	aggcatgggt	ctaccttgcc	60
ttgggtagga	gccttctcac	agagagaaca	aaaccaatca	tttctccatt	tgaactgaaa	120
gttcaagtat	aaccatgata	agaacttata	tatctagtga	atccaatatt	tattccacta	180
actgaataaa	ctacaactat	aatgatcctc	anagcacagg	ctctttaaca	ggtcacaaga	240
ttaacaactt	tgtggatgtg	ttgtatttaa	gctgcttgaa	catctcacia	taacataaaa	300
catatccaat	aagtaaagct	tattccatgt	ttgc			334

<210> 4332
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 4332

ttgcggattt ggtcttcgct ggcgaaatga tcgaagtggg tctaaaaaga ggcaaatctg 60
 atcatcatgc tttgataaat gcaaaaaaaaa aaattggggc aagtgaagag ggtgagaata 120
 agggacaaac ccatgctgtg actgccattc ctatacagcc aagtttccca ccaacccaac 180
 aatgtcatta ctacagccaat aacaaacctt ctctttaccc accacccagt tatccataaa 240
 ggccatccct aaatcaacca caaagcctgt ctaccgcact tccaatgatg aacaccacct 300
 ttagcacaaa ccaaaacacc aaccaagaaa tgatatttgc agcgaaaaag cctgtagaat 360
 tcacccaat ttccgtgtcc tatgc 385

<210> 4333
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4333

agatggaggt tttnttttca ttagtcatcg atganncgct agacnagcaa gacncacgct 60
 tgctaggtng acggtctaag ttcagattgg aggcatttca tccacgtttc taacttgagt 120
 accggcagcc gcttgggggt gaggctaggc aagatcccta ctgggaggat aagggtgccac 180
 ctctaggctt agttcataac attgtcatgc tagcatctga tctaccatta ttgtcacaat 240
 cacaccagac agagtgggga ataccaaatt cggatgcaac gtggaaacta tttgtacaat 300
 cctaataaaa agtctactgc taatcaaagc aaaatatgac gtatttgcac caagcaaaga 360
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<210> 4334
 <211> 186
 <212> DNA
 <213> Glycine max

<400> 4334

tgcacttcaa tacaatgctc gattgaagga tttgtttttg agcttaacga caacctcccg 60
ggagccacct tcgtccttgc caatgtgtat gatttagtgc tggaactcat aaaaaattat 120
gataaatagc ggaattaaac atgcaatccc ttccattgga ttttactttt tatatgaacc 180
attata 186

<210> 4335

<211> 371

<212> DNA

<213> Glycine max

<400> 4335

ctcaagctta acaaaatata aatctaggag cttctaccta tgtattataa acaaatttaa 60
attaaaactc atggagaggt tagtaaggga actcagaaaa atagccccgt aaaaataaac 120
tcatgggggtg cctcctcaca aaggggggtcg cagtgaccag gcttgggcga ctgggttatca 180
aaaacacagg tggtcacaaa ggcataagat catttatggg ggcttagatg taatctggaa 240
tatgagagat gtttaatgaa aggaaaatgg actccatttg gataaaaata actactttct 300
ttagacgcct tttttttgcc tagattcttc acaacctatc taagtgggta agctactttc 360
cgcgttttat a 371

<210> 4336

<211> 382

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4336

tatgcgcata tttccttacg aacgttcact tgcacttgac attctattaa ccaaaaaatg 60
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tacttggttac ttacatcaca cacatctcct tggctgaatt tacatacatg cacactcaaa 180
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tttttttttc aagtttttac tacctaaagc cgtgtcatac cctaatttcg tccgnggacc 360
tttgctcgat gacgtgcgac ca 382

<210> 4337
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4337

tgctntcaca gttcactctc tttcataaat taggcctttc tctctttcac tccctctctc 60
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 ggcgcaagcc aacatcagca gcagcaccac gcgttcctaaa ggtgttcaag gcgtacatga 240
 ggctctggaa gcaccagcag gagaaccgcg cgaagttggt ggagtgcggg ttgaagcagt 300
 gggaaactga cgagatcacg agctgaatcc aacagctgta ctttgggcag tacctgagga 360
 gcagtgagtg caagttcctc ggc 383

<210> 4338
 <211> 352
 <212> DNA
 <213> Glycine max

<400> 4338

gtgtgatcaa caagtaacca tgcgttttgt ctccagactt taaagaagcg ctactaggag 60
 gcaacaaaaa attttctacg aagaagcttc ctgcgtagtgt gtctatgtag ggcaccatta 120
 aagaggattc tagtgtgtcc ccacaagctg acacaggctt tgacatactc catatatgga 180
 gcgtgggaca ataattacat ggggggggcaa taaagtgttc tcatttctat acagagacag 240
 gggcagctga gagatgatga ttttcgcact ttcttggagg aggtggagct tgacaacagg 300
 gatcgtcaaa cttgtgattt attcttcatt aatgttcgca atgtctctat ta 352

<210> 4339
 <211> 355
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4339

tgtaaaccac ctagagcttg gacaagtatt gtgcgtgtct acttctgtca agntatccgg 60

ggtggacatg cttttggttt tacaagtaag gtctaacgtg tttggtgagg gaagcctcta 120
 tatttgacaa ctctgccctt gtctgaccgg tagagagtac attgaataca aatgttatgc 180
 tttttctatt acgacagggtg tgtgcgggcg tgcgatagca ctctgtcata tgtatcactc 240
 atggagtggg tacgtactgg agatgtgatc cgtgggtgag aagggttgtg tcatggtgca 300
 taaaaataag acaccgaatc agcttccgcc agttaccaa gagtccattt aaatg 355

<210> 4340
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 4340

actaaaaact cgcgtttgca ctccactcat atcggccttg acttaatctg actaacacca 60
 tcgacatagc ggggtgtatt atggacctca tatacaaagg cttctttgaa caactctgca 120
 atccttcata cataggcgca tgtgcttggt gtaaagactc ttggtcaaag gcacgtatca 180
 tatcccccaa gtggactccc cattctacat caaacggttt atattgggac ccactctcga 240
 tgtatgtcat attaccaagc catatacacg ctggtgaatc gttctaatec catcacacaa 300
 tagatgctcc cggttcgtgt ccagaatttg togetttcca ttcaaacaat tga 353

<210> 4341
 <211> 262
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4341

gtgatggtgt agatatgaaa tcacatgtnn ggcattatta aaaaggggga gaatgtgaat 60
 gtgtgtatac atgattttga tgatgtccca tagaagaatc aatcagcgct cattttgctc 120
 taagattcat tcaagatctg ttcatcaaac ttattctnga ctcaagatta cttttagatc 180
 aaaccttgcc tcacactgaa aggtttcaag tcattctaag aacatgttat ttattaccaa 240
 tacatgctat tgattaccaa tg 262

<210> 4342
 <211> 294
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4342

agctntgata aagaaggcga tgggatgttc ctattgtgac aaaaccgccc ccattccgac 60
tctcaacgcy tttgtttcca ctgtgaatgg aaggctgaac tcatgcaagg ccagcacagg 120
cgccgtcgac aatgcatgtt tgagattgtc aaaggccaaa tgagctngcg ggggccagtg 180
gaagggatca acantgatga actagactaa cggagttgca atcgttgcat atccactaat 240
gaagcgacga taaaatccta ccacactaan gaagctttgc acagctttta tgga 294

<210> 4343

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4343

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agaataattc taggatttta gaattccagt ttttactatt catgcgcact attcacgtag 120
aataaaattg attttctgca attccatttt tgcttcaatc tacaatttcg ttttctactg 180
attaatggaa agctaagtct ccagcggttg tttctcttga ggatcaaaca catctctctt 240
tgagggtttg ttattactat tgaattctaa tcagttcttt cttcttcacc aattactctg 300
tatttggtgc tattaatcca tgcattgctta atgcttgatt aattatctct gcgcttaatt 360
tacattcatg cctaattgatn caattcggtc atgattaatt gngtatgtg tngcttaatc 420
acataatgac aa 432

<210> 4344

<211> 387

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4344

agtcacctga ggctgcagct ntcactacat catttagaag cgttcaagag ttttagaggc 60
gcctaactgg ggcggataca ttctttcctt tgggtagagg tgcattcgga atgtgcaaaa 120
gagcattggg actagaaaat atgatgtatg gcaagatcta tctcagagga caacaggcta 180

Abstract

ctcaagtgcc	acagatcatg	tcacagcctt	tctctcttta	ttctctttat	gcaagaaaat	60
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aactttttat	acttatcttg	attaagcatt	ctcttgattc	ttgaatcttg	agtcttgaat	300
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caatagacct	tgtcatacc	taatttcgtc	cggggattat	aatttgatga	tatacaacca	240
ttgattgacc	gcttcgagat	gtttggcacc	ctttgttgca	caatatgtga	agtcccgaga	300

cggtgtcgaaa atcaaa

316

<210> 4350
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4350

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ttgtatgttt tacgcttcct ttggaaaacc ctagagaaag agactttgtc aaagctatcc 120
ttttctgaaa tgggtgttat ttctgtgacc ttcatgaac tccgttcgca ttgacgtgat 180
tggaatttca aaatgatgct cctttttag aaccgtaat accccttagc cttttcatgt 240
agtgacatga gtatttgact cagggatcgc ttgtcaacat tttttctgaa atccgtatga 300
agtttcttc attttgacgt atagagacta gcgttggacc gacaagcgtg aacgaggaag 360
agacctctaa gtgacgcaca gaggaacccg gcgngagct cacaataggt ga 412

<210> 4351
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4351

gtatgcccga gtcattcatt catatgagat gttgttgaag tattggcgat cagtattgcc 60
attccttgga ttatagggtt gaaccaagct catgctttta taaaagggt cattaagtca 120
agttgaaata tggaagtaac cgtcttgcaa aattggggca aaagatgaat cgagtcacat 180
cactgcttcg tctactgcca aacatattta ggattattga tgccttggtt acatccagtt 240
tcaccttgac aaagatgtca tggaccatgt tgaaaatcta aattgattca accccatata 300
ctgcgtaaaa attcgcaata cttcaactgt acatcattcg catacatcca tgcttttcat 360
tggttgcatt gtcattgca ttctttcctt gaaaaataaa atanaataaa atgaacttaa 420
tca 423

<210> 4352
<211> 331

<212> DNA
<213> Glycine max

<400> 4352

agcttcccgat atccatactt ggaaggatct aattactgcc ttcctaaggc aatatcagta 60
taattccgat atggctcctg atcgactca gctgcagaat atgttcaaga aagagggcga 120
aacctttaa gaatacgcac aacggtggag agacctggca gcacaagtgg ctctcccat 180
ggttgagaga gagatgatca ccatgatggg agacactctg ccagtgttct actatgagaa 240
gctagtaggt tacatgccgt ccagcttcgc ggacctagt ttcgtcaggg aaagaatcga 300
ggtaggggtg aaaagaggaa agttcgatta c 331

<210> 4353
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4353

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ttcttcatca atggagtcct ttgcttcttg aatatcaatg gtagcggat ggagaagggg 120
gaaaggtgat tggagacgcc acgtcaagga gaagatgagt caagaacaag ctcaccacca 180
tatgaagcca tggataagag cttgaacgta agagaagata aatagaggga gagggagaga 240
aggggcacga aatttatgcc tcaaagagg tatgacctt gaagtgtaat ttctcanata 300
atcaaagttg aaaattgcac acacatggcc tctatttata gcctaagcgt tacacaaaat 360
tggagggaaa tttgaatttc tattcaaatt tca 393

<210> 4354
<211> 401
<212> DNA
<213> Glycine max

<400> 4354

agctttgagc caaaatcctg actcaccata aaccttgacc cagggtgaga atgccaatcc 60
ttaccctcgg aagcaaaaaa agaataagg ggaaatttcc gatcaaagaa aaagagaagg 120
aaaatttcca atgaaagcaa aaaagaaatg aaggaaaatt cccaatcaa agagtgggag 180

aaagcaaaaa aaggaaaaga aggaaaattc cccaatcaaa gagtgggaga aagcaaaaaag 240
 aaaagaaagg aaaattccca atcaaagaat gggagaaagt aaaaaaggaa gaagaagaag 300
 gaaagaaagc tctgatcaa ggatcgaaag aaaccagaag aaatgtgcag agaggtcttt 360
 ggaccagaca atatctgaac agtacagaat tgtcccaaat g 401

<210> 4355
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 4355

ttagaaaaatg atttctatac caaagttagt cgtataatgc aactaacaag gatgaagctt 60
 taagtgtgat tcttttcttt ttcttatcat tctcctcatg ttgattcagt ctcatatagat 120
 ccatttcgtg ttctataac ttccaaata aagttgcaag agacatgtta gaaagatccc 180
 ttgattctgt aatagttggt acccttggtt gtcattccct acttaaacat cttagaactt 240
 tattaataag atcctcattg ggaaatatct ttctaatga tgcaagatga ttactatgt 300
 gtgtgaatct cttttgcata tcatgtatag ttctatttg attcattcta aacaattcat 360
 attcatgggt taaggtatct attctagacc cttttacatc tatgggttct tcatgggtta 420
 c 421

<210> 4356
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 4356

agctatgctg atttagtttt cgctgatgaa aagatcgaag tgggtctgaa aagaggaaaa 60
 tttaatcatc ctgcttggaac gaatgagaaa actggggcta atgaagaggg tgagaataaa 120
 ggagaaaccc atgttgcgac tgtcattcct acatggccaa acttcccacc agcccaaaaa 180
 tgtcattact caaccaatat cagctcctct cattaccac caccagtc tccacaaagg 240
 tcatccctaa atcaaccata aagcctgtct accacacttc caatgacgaa caccaccttt 300
 agcacaaact aaaacgccaa ccaagaaatg aattttgtag caaaaaaggc tgtagaattc 360
 accccaattc ccgtgtccta tgctgacttg ctcccatatc tac 403

<210> 4357
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 4357

tgtatagttc cccaatctat gggtattttg tagtcaagaa cactcaatca tccataaagg 60
 caacccttaa atcagccaca aagcctgcct gccgcacatc cgataccaaa caccaccctt 120
 aacacaaaacc aaaacaccaa ccaggggaagg aattttccag aaaaaaagcc tgtagaattc 180
 accccaattt ccgtgtcgta tgctaactta ctcccatatc tactcaataa tgcaatggta 240
 gccataatcc cagcaaagat tccacaacct ccattttctt gaggatacaa cttgaatgca 300
 acatgtgctt atcatggagg agttcccgagg cattccattg agcattatat gaccctg 357

<210> 4358
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 4358

agctataaaa atattttctca cccataacta attaaaaaga gatttatgta tatttattta 60
 aatgattatt atgaaaaaga aatattagta ttatttttta ttttttagc tcaacaagag 120
 tagtctggta tttctacgta ttttcacgag caataaaaga ataagagta tggtgtaatt 180
 cttttagtaa aatatttgta aattgatatt tttatattct taattttgtt ataagctttt 240
 ttgtttactt aattatgaaa tttttattgt ggcagtaaat taaatttgat ttaataggat 300
 caattaaaag agaagtttta aaacaatcaa tcgtcacaca acttatgttt caacatctca 360
 aaattaaaaa gatgtcaca 379

<210> 4359
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 4359

tcatagctaa tattagtcaa tgtcaaccta gatatactca ccaatatatt acaaaatttg 60
 acattcataa atgtaactga cttttgattc atataacttg tgaaattata agaaatgact 120

caactcacag caacatttttc tttatgtagt agaaagtgga caaggagata cccaagcaat 180
 attcatcaac taaattatat tgatttaaac cacaaatatt aaaatttgga aattacatct 240
 atgcttaata agactcagta ctaaccagtg agtagagatc cagagtacta accttaataa 300
 aatactgata cataccactt ggtgtttctt gtgtccaatg cacgctgata atcaagaaag 360
 cat 363

<210> 4360
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 4360

agcttcttgg caatccccat tccagcgatc agtttggttt ttgcgtaaga gcttgaacaa 60
 cggctcacia atggcgggtga gctgtgatat gaatctggca atataattca agcgtcccag 120
 gaagcctcgg acttgctct cagtacgtgg ttctggcatc tcaaggatgg ccttcacctt 180
 ttctgggtct acctctatcc ctttctggct tacaatgaaa ccaagcaatt tccctgattt 240
 gaccccaaag gtacacttgg cgggggtcaa ccttaactga tatttcttaa gcctttcgaa 300
 caacttccgc aggttgacaa ggtgttcttc ctgagattta gatttagcaa ttatgtcgtc 360
 cacgtagacc tcgatctctt gat 383

<210> 4361
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 4361

tgaaggtagg agaagatgag tggagggaga aggagagaaa gagcacgaaa ttttatgcct 60
 caagtgaggt ctaaaatttg aagtgttaatt ctcaaagatg caaagttgaa aaaaatgcac 120
 acacatgacc tctatttata gcttaagtgt cacacaaaat aggaggggaa tttgaatttc 180
 tattcaaatt tcacttgaat ttgaatttaa attggtggag ccaaatttgg agccaaaatt 240
 tcactaatta tgattagtga attgtagcta tgattcaacc cactaatcca agatcaagtc 300
 caagattctc cactaagtgt gcttatgtgt catgaggcat gtaaaacatg aaggatatgc 360
 acaaagtgtg actatatgat gctgtaatgg ggagtagc 398

<210> 4362
 <211> 218
 <212> DNA
 <213> Glycine max

<400> 4362

agctattgcg ataacttcat gtgctactca acgattggaa gaactttttt tttgtactta 60
 tcttgattga gccttttctt gattcttgaa tcatgagtct tgaatcttga tcttgattat 120
 tcttgattct tgaaacttga aacttctctt gattcttgaa ttgatcttga ctcaatcttg 180
 aaattattct catgggcttt ttgacatcat ctctgcta 218

<210> 4363
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4363

tttcgcaaat cttacggttt tatctgagat ctagccatgc gagaagtatc cacagaggcc 60
 aattcctccc ttcccagta ttatgatcag ccgttgagat gctttacctt tggggacttc 120
 caactgtcac ccatggtgga agaatttgaa gagatcctat gatgtgctct acggggaagg 180
 agaccatacc tcttctcagg gttctatccc ttattagcta gaatttcaaa gatagtccaa 240
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 agaaaatggt tggaggcaaa agcaagaacc ttggcaggta gaggcgaatg agccccgctc 360
 atagacattc tcgcactggt gatcttcnga ggagtcctct ntcataatat ggat 414

<210> 4364
 <211> 102
 <212> DNA
 <213> Glycine max

<400> 4364

agcatttgac ttactatacc aagctctatg aaccaggggac ggaaaaagat ctatatttac 60
 gcttgctcac ggtatacaga ggaaaactag acatttggat ca 102

<210> 4365
 <211> 399

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4365

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 gaatctttgc atgaatctct gaattttaga atgaaatgta taaactatga catgatgaag 120
 accataattg tgcattacaa gccttttgac caaaaagctt accttgaatg ataattatat 180
 tctctgcacc ctttttgagc tgaatgatat tgtcaaaaat ttgaaccctg aacttaaata 240
 aatgtctcct gataccttgt ttagattcta tgagagcata tggttcaagg caaaattacc 300
 ccaaantnlgc gggaaggga ctaattgcga tgcaaagaaa anaagagaaa gcatcagcnc 360
 acacaacaat taagttgtat ggtaaaataa acagagaga 399

<210> 4366
 <211> 378
 <212> DNA
 <213> Glycine max

 <400> 4366

 agcttagcat gacctccgag atacaagcca tttgatcttt aaaggtcgat agggcggact 60
 tcatctgctc ttgactccc tcttcattat ccattgttct ggatcgagtg ttataggggt 120
 gcctctgcac tttcttagtt attgtgagtt ccctacagaa acagacaatg gtgagtatgc 180
 caccaaaaca tgaatatgct catgaattat cggagcactt ggatccacct caagattttt 240
 acataacgtg aagagtttca gaacttctcg ttgtataaaa aggaacaaag cttttatcta 300
 gccaatatca tacaaaagtg ttacaacaaa acctaacggt ttctaattat atgggccatc 360
 aaatctatca tgtgttga 378

<210> 4367
 <211> 355
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4367

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 ccaacgagtt tgaagcaacc ttcatttctt ccatttgcaa atctttcccg cgaacagaac 120

tagaatatga aaccctttaa cgagaaaggg tgataatgat taatagaatc ataaaaggaa 180
aagaaaaata caaacgttaa catatagatg tgcaatacag atgaggggtct tgaattatta 240
tttacctgga acctacacat atatgtattg ttgcccatga tggcccttga ggctctgaat 300
gggctttcga ttaggggtttt tggagcagaa cacaatccat aagctagcca cgaca 355

<210> 4368
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4368

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agcttggtca acaggtattg ttatttaatt cttgattaag attgtttcca agtaagctga 120
aatccaagtg gtctagacca ttcacatca aagaagttat gccatatgga gcagtgatat 180
tggaggaccc aaccaccaa aggacatgga ccgtgaatgg tagaagaatc aaacactacc 240
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cgaagacgtc caattataaa gacgttaaag aagtgtcttt gggaggcaac ccagtgtttt 360
ttaaactttg tcttaacttg tgttacttta atcttatgcc ttatatatct aanacttact 420
t 421

<210> 4369
<211> 362
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4369

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catttctctc tctttcgaat ttgcttagga aaattgtttc cgtgaagaaa atccaagccg 120
aggcgctttc gtaacgtttc cgtgagtgat ttcgtgaagg ttttcgaccg ttcttcattc 180
gttcttcacg gttcttttagt cttcaacggg taagtacctc aaacctagct tttcaattca 240
ttctatgtac ccgtgggtgg ccacaattgg tttcatgtat ttttattctc gnttcattta 300
ctttttatac ccccttttga cgtgcttaag ccattntatt taagtcattt ctcgcttaac 360

ct

362

<210> 4370
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4370

agctttataa gcaaaaagta aaaatctatc atggcaaaaa gctatcaaaa aggaattttt 60
 agcttggtca acaggatttg ttatttaatt ctgattaag attgtttcca agtaagctga 120
 aatccaagtg gtctagacca ttcattcatca aagaagttat gccatatgga gcagtgatat 180
 tggaggaccc aaccaccaaa aggacatgga ccgtgaatgg tagaagaatc aaacactacc 240
 taggtggaga tttcgagagg ataactactg ttgtccagat gcaaaaggct tgaaccataa 300
 cgaagacgtn caattataaa gacgttaaag aagtgtcttt gggaggcaac ccagtgtttt 360
 ttaaactttg tcttaacttg tgtactntaa tcttatgcct tatatatct 409

<210> 4371
 <211> 364
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4371

tctcccncaa ttntctataa atagggggag atgtgaagta gaanagggtt cggcccctta 60
 ggcattttctc tctctttcga atttgcttag gaaaattggt tccgtgaaga aaatccaagc 120
 cgaggcgctt ccgtaacgtt ttcgtgagtg atttcgtgaa aggtttcgac cgttcttcat 180
 tcgtttcttca tcgntcttta atcttcaacg ggtaagtacc tcaaacctag cttttcaatt 240
 cattctatgt acccgtgggtg gtccacaatt ggnttcatgt atttttaatt ctcgttcatt 300
 tactttntat accccctttt gacgtgctta agccatttta ttaagtcatt ttctcgctta 360
 acct 364

<210> 4372
 <211> 374
 <212> DNA
 <213> Glycine max

<400> 4372

agcttcttat accaatgtca cgaggagtgt ggtagtcaga ttcatacaaga aggagctaata 60
ttgtcgatgc ggactcccta ggaagatcat cactgacaat ggcaccaatc tgaacaacaa 120
gatgatgtag gaaatgtgcg aggatttcaa gatccagcat cataactcca ccccttatcg 180
tccaaagatg aatggggctg tagaggctgc aaataaaaat attaagaaga ttgtccagaa 240
gatgaccgtg tcatacaaag attggcatga gatgttgctt ttcgccctac atggatatag 300
aacttcagta cgaacttcta ctggggcaac gccgtattcc ttggtttata ggatggaagc 360
aataactcta tttg 374

<210> 4373

<211> 344

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4373

taagcctcca gcttgcttgg gcgagctgng cggcaagctt ctctccatt ttccctataa 60
aatggcgttg gaggcttgag ggaaaggggt cagccccctt ggcaattaga tttcacttaa 120
aattagttag gagaagaaaa aagaaggaga aaatccaagc tgaggagctt ccgtaatgct 180
tctgggacgt ttccgtgatc aattccacta acgttcttca ccattctttg tcgntcttta 240
ttcgntcttc atcctttggt gatcttcgac cggntagttt tcgatttcga agctttgaat 300
tcattctata cacccttagg ggtcaattct cgctttgggt taaa 344

<210> 4374

<211> 412

<212> DNA

<213> Glycine max

<400> 4374

agcttggaga agatgcttca atggaggtat tgaatgaggg agagaaatag agagggggga 60
gcacgaaatt gaaggaataa aagaggtata gaagtggaac tttgaagtat gtctcacaag 120
actctcattc atcaaagtta caacaagcgt tacacatgct tctatttata gactaggtag 180
cttccttgag aagctttctt gagaaaactt ccttgagaag cttctttgag aatactttct 240

tgagaagcta gagcttatct acacacaccc ctctcataac taagctcacc atcttgagaa 300
gcttccttaa gaagattcct aaagaagcta gagcttagct acacatacct ctctaatagc 360
taagctcacc tccttgagat gagaagctag agcttagcta cccaccccct at 412

<210> 4375
<211> 403
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4375

ctcaagcttg agatgaggaa gtgttgaagg gtgaaacttc ctgcttttat tgntgactca 60
cagagtggta cctggagata tgtcgcgggg gtcacgagac cttgctgacg tcaggtgggg 120
tgctattgcc cataaccaag cttgaccaat cagacccaa cccgggcata gtctgtcagt 180
gagaacctgt gatgtaccta agcaggcgag ctctggcag tcaacagata aaaggaaaac 240
acgaccacaa agcaatgagg cttgtggtgg ctggccatct gcgaattttg tgtaatatgt 300
ggatcgaggc ctctggtaat cgattaccaa tggtggttaa tggattacaa ggcttataaa 360
tgacgacagg aggctaatat ggtctctggt aatcgattac cac 403

<210> 4376
<211> 388
<212> DNA
<213> Glycine max
<400> 4376

agctaggaga agatgcttat tggaggataa gaaagagga gagaaagaga gaggggggag 60
cacgaaattg aaggaataaa agaggtatag aagtggaact ttgaagtatg ttcacaaga 120
ctctcattca tcatagttac aacaagtgtt acacatgctt ctatttatag actaggtagc 180
ttccttgaga agctttcttg agaacactta cttgagaagc ttctttgaga aaacttcctt 240
gagaagctag agcttaccta cacacacccc tctcataact aagctcacct tcttgagaag 300
cttccttaag aagattccta aagaagctag agcttagcta cacatacctc tctaatagct 360
aagctcacct ccttgagatg agaagcta 388

<210> 4377
<211> 282

<212> DNA
<213> Glycine max

<400> 4377

ggtacctgga gatattgtctc ggggggtcagg aaaccttggg gacgtcaagt ggggtgctat 60
ttcccaaaac caagcttgac caatcccgac ccaacccggg catagtcggt cagtgagaac 120
ctgtgatgta cctaagcagg cgagctcctg gcagtcaaca gataaaagga aaacaagacc 180
acaaagcaag gaggcttgtg gtggctggcc agctgtgaat tttgtgtaat atgtggattg 240
tggcctctgg taatcgatta ccaaggggtg gtaatcgatt ac 282

<210> 4378
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4378

agcttgggtg ggaatcgata ttggggaatg ccatgtgggt tcgngnatatt atagactaag 60
aaatggaaat ggctttggat tttggattcg gcttattttt caactacata agggtttacg 120
ttatggaagc taggatatga gagattgaga cgaacggatc tctatggtac gtacacactg 180
acttttgctc catacaggct tgtaccaga aggtttacga atgtacatgt catttattat 240
gtgagtacgt gtattgaata tgctagctct taaatagtag gataataata tgtaaagacg 300
attaatagtt atatcttttt tttcgatacc tgagtaatac gtcctatttg tttctagatc 360
aacattatat gttatatcaa gtagccatag accacgttta cgtataaa 408

<210> 4379
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4379

ctgancctga tgacgcgtcg taaccgagac ctataaaact cagctttaac cgccccagag 60
aggacgtgaa ttctataaga gctttgacgg ttgaggaggt taatggggtt caaagttgct 120
taggagaaga ggaaccgagg aagaagaacc agccatgacg cgctaccgaa tcgtgactga 180
gatcattccc tacatgcgtt tcatggctcg tgattctcgc gcaacaatcg gttagttttg 240

tgcggtgga tagcgatatga tctatgttct catacgggtc ctctccgga tgatgtgcat 300
aatcagcttc acgtctatca ttggtaatct cttacttat ttgtaccgct tatgataact 360
gaacactagt ttcgtaaagt agtctttaat gagactgaaa gctaataaca ataccagat 420
ggaccgactc ataattggac ttctctctc agaaagacac ttgat 465

<210> 4380
<211> 354
<212> DNA
<213> Glycine max

<400> 4380

agctaggaga ggaagctact atggaggata agacagaggg agagaacgag agagggggga 60
gcacgcaccc gaaggaagaa aaacggagac aagctgaacc ttgagacgtg tgctacaaga 120
ctctcattca tcaaagatac cacaagagtt acatatgcct gtatccatag acaaggaaac 180
tcccttgaga acctttcctg agaaaacttc cttgagaagc ctctttgaca aaacttcctt 240
gagaagctag agcatagctg ctcacacccc tctaataact aagctcacct tcttgagaag 300
cttccctgaa aaaattccta aagaagctac agcctaacta caccacccc tcta 354

<210> 4381
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4381

aacattgacc cttgatagac cggtcctatg cggagacact cataatactc agcttagctt 60
ctctagggag acccctgttg ttttcctttt tgtccagtaa cagcgcgagc ggagccgaga 120
ccaactggac cacaacctcc agcaattaat acatttgctt ctacagagtt gagaaactat 180
atcactgacc agattcaccg tgaccagctc tcgtnattct tcttgaagac tcacgtgatg 240
acantgctgc tctttctaatt tcaccaacct gctgcctata ggatgggttg gacctttgtg 300
gatggatgga cgactgagga agatgtgggc atcttgacat gaatgtgaca ctcttgaggg 360
acatgggctt cttttgttgc gcctattggc tactattgat ataatcatgg ctttacaaca 420
acatcttctt tttggttatt ttgcgcatgg gtagcttaga t 461

<210> 4382
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 4382

agcttaatatct ttccctatatct caatagacca tcttcttgat caaaaacttga agacacaaca 60
 cgaacaaaac aaacaaaatg gttgatctgg aatgattaca tccaccccaa aacaaatgcg 120
 aaaatgattt gaacagaagc tcatatacca atttattggg tttaagactg taaaatatga 180
 aaaagatagg aaaacaaatg atataaggaa aagagagata acacaacaat gaaagtttat 240
 tgcatataat agaaaatggg acaatgaaag aggtgttcat aagctctctc taactaacta 300
 attcctttta tagaagtgtg cacacaaaac agaataactg aaaaacagtt ataacaacta 360
 aagcagttat aac 373

<210> 4383
 <211> 145
 <212> DNA
 <213> Glycine max

<400> 4383

tcatgtattc ctagattaca agacattttt ttggagattt atccatgttc atcatatgcc 60
 aaggatcgtg gattgggtga ttactactaa gctcatagac tgcattcatt agatgtaagg 120
 acttgctaca taatgtgatg tttgt 145

<210> 4384
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4384

agcttgtaaa ttntttacac ctctgtctgt ttgtattaat tattattggt aaccttccag 60
 aatatatatt cgtatatcat cattcatttt ggtgtctttc ctctgtgggc atggggatat 120
 tgtcctaatt tcttttagaa tgcatttaga ttcataattt tacttgagga aagtaattta 180
 ttagataatt taaatttctt taatctaaaa ttgattgttt gaatgttttt ttataaagaa 240
 tttaaatttt tataatttta aacaattaaa aatatagaat tttaatttcc ttctaaaaag 300

cgagaaattg atattctctt cttgataaaa gagccttaca aaatatttgc gtattttctt 360
tataacctcc cgtctctctt ccac 384

<210> 4385
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4385

tgaacataga agaatctggt tcgcattaca actcaatggt tcaacatatg aagacagtgc 60
tatgtaaaaa tatacataca ctgatctaaa catgcaaata aatttaaata gcatatttag 120
atcaaacaac ggaaattaaa agaattacga gcatatctct ggccattgca aattgaacgg 180
gaagcggcgc acacactaac ctgaaagaca gttntgttct tccataccct tactcactct 240
gaatagatga tgtatttttt ctgaatagag aagtgggttt ggtgatacaa aacttagagc 300
accccatcct atttatagag tctgtccatc acagagctct cagcttggtta tcagacagct 360
tgtcatcaga acgtgagata ngaagttatg aaacgtgaca taaaagtga tcagtacatg 420

<210> 4386
<211> 276
<212> DNA
<213> Glycine max

<400> 4386

tttaggccat accaagattt ccacattaac ttctctctgt tgcatactcg tgattaaggt 60
aattggagct tgacaaagat ccgaaaggag aaaagggtcac gaattcatc ctcgctatca 120
aaaataacaa ttgtcattga ccgattaaaa aaaatactgt ggtgctaaat aacctcttga 180
acaaacgatg catcaacaat ttctgttata cagactaatt gattaattac tcactttagt 240
aaacagtata tgagaagcat gacattaaga tagtga 276

<210> 4387
<211> 338
<212> DNA
<213> Glycine max

<400> 4387

agcttggaat atggcagggc aatcttgcta aaatcctgga tgaatctctt ctaaaaactt 60
 gcatgtccga gaaaagaacg tacttcctgc atagaagcga cgtaaggaag agaagtaata 120
 acatcgatct tggccttata aacctcaata cttttactaa agaccaaatg ccctaagact 180
 atacctttat ggaccataaa atgacatttt tcaaagttaa aaacaaggcc aatctcaatg 240
 cattgggtcaa aaaatctaga gaggtacttc aagcaacca cttgagattt ttcactccct 300
 ttgtaaaaat cgtttacaac ttctgaacca cacaggga 338

<210> 4388
 <211> 300
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4388

tctataccac cccatttctc ttcccccttg gcaacttcta aaatccaaag tacgtggtaa 60
 taacaacaca atagcattca tataattcaa tataacacac aaacactaaa accaaaaata 120
 atccaaacat tcataaggta aataaataat ccaaacattc ataagtcaaa ccacatagaa 180
 tctaatacata aaagactaaa gtccaaatac caaaagataa cttaaagtgc gaaaatgata 240
 gcctanagat catagccaaa tacacggctt ataagaaaag agaactataa actaaacact 300

<210> 4389
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4389

agctnttagg cagtaaaata gtataaaatc taatgaaaga aaaaataagt tggaggaaaa 60
 taatcataag ctacaaatgt tcaatttcat aaaaaataac ttttttctta gaaagaaaag 120
 ctttttgtaa atttaattta ggattccaaa tatccaactt aattgtttcg gaaaaaactt 180
 aaaaaaaaac agttaaaatt ttagattatg agttctccca aacattttta tcacataacc 240
 ttatatttcc tagattaata cttaaccttt ctactatttt tgtccctttt ttttctctct 300
 tcttcaatca atttaattct ctcaaatct tatctaatat tatcaagtgt cttaatttag 360
 tcatatttac tatatttttt taaataaaat gttaataaaa aaaattaatg aaacatataa 420

423

tattgtgtca cttactntnt ggttagggcg tctcaatttc atgttagctc ttagattttt	60
tttttttatt aatccctggg tgtattcatc atttcattaa tatagaaatg atgagctgat	120
ttcataaaaa aaaagtctga gatggacttt tgtgctaaac aaagggcaac gagtaaaata	180
tcaaattagt ccctcatttt tagaagcact gtcaatttga tccttgagat ttaaaaaata	240
tcaaaatgat cctcgatttt acatttcggt tgccacgtta gccctgtca ttaataatct	300
cctaagaccg ctagtaaattg tgtgatatga cacgctaaat gtcacctaga cacacacgtg	360
aaact	365

agcttcttag	tcttggtga	tgaagatgaa	ttcgtgttta	cttcatgcac	tcctctaattg	60
acaatagcat	catcacttct	atcactaaat	tgatgggagt	ttgaagccat	cttctcaatt	120
aaacttctgg	cttaagtagg	ggtcattgtct	ccaagggtc	caccactggc	agcatctatc	180
atacttctct	ccatgttact	gagtccttca	taaaaatatt	ggaggagaag	ctgctcaaaa	240
atctggtggt	gagggcaact	ggcacatagt	ttcttaaattc	tctcccagta	ttcatataag	300
ctatctccac	tgagttgcct	aatgcctgaa	atatactttc	taaaggttgt	ggtcctggaa	360
acacgataat	attttctaaa	aagaatactc	tcttgaggcc	gcccattctcg	tgatgga	417

<210>	4392
<211>	329
<212>	DNA
<213>	Glycine max
<400>	4392

ttaccagaat ttctaggcga aattcatgtt aaatatattt gatgtgctct aactcatata 60
 tatatatata tatatatata tatatatata tatacacaca cacacacaaa tattaattac 120
 aaagacatct agaaaatttt gttttctctt tcacaatatt aacaaagtag tgaatagaat 180
 aatataactc aagaaaaaga gtagaaaaca ccctcaaatt tgacaagaga gttacaaagc 240
 atttctttta ctggcactta atagaatttt tgtagttaca tgtaactagt gatgacattt 300
 atcatcttcc atggattaga aatgactct 329

<210> 4393
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4393

agcttggttc aaccccataa cccaaggaat ggcaattttg attgccaata cttcgacaac 60
 atttcataga gatgaaagac tcgggaatac atatgttatg catggaaaat gtaattatga 120
 gattgagatg cccgaagaaa catcatttcc tagttaacca cacattaggt accatgctca 180
 atcatttagn tntgggtttt ttcttttttt tttggaaata ggtttatgat cccaacatgg 240
 taggctcatg gtacctaaca catgaaacta agaatgcatt gtgaattttc atgcttcctt 300
 tttttgtttt tgttttgtag aggaaaatgc aaggatcatg catgagtaaa catgacaata 360
 aaaggatatgc aaaaagcatg gtagatgcag atgcatggtc atgaaatgac 410

<210> 4394
 <211> 309
 <212> DNA
 <213> Glycine max
 <400> 4394

tgaggcacct gccttttaac ctaatgtccc caaagtggtc ttaccaagg atcttgtttt 60
 ccatacatta cgaaaattgg caccttgatt ttttgacatc taaatggaaa attaacttaa 120
 atagtattat ttatcatttt ttgaatttaa tttcagaaac caaagttcat tcctgaaaat 180
 tcagtagcat gttatgtcaa ataacacttg ctgcatctga tccccacatc cctataaaga 240
 ataacttcag attttcacat cccttacgat atattttgct aagtttcaca acctcacaca 300

caaaagatg

309

<210> 4395
<211> 394
<212> DNA
<213> Glycine max

<400> 4395

agctttgagc tttgaacacc cacgagtgtt tcagcacct agtagcaaca gtgtatgttg 60
ggttttcttc gagccagact tccaagaaca gtgtaagggg ttctgtgggt tcgagcgagg 120
acaatgtggg tgttgaagga gcattttccg gcagatttca ggcgggagga gaaagagaag 180
agcgatttta gacaggagga tgacaaagag aagagggagg gaaaggtttt cgagcgcgcg 240
gggcttgtga aatctcaagt tttaacttat aaacataaca acatcggttt tttatggata 300
accgatgtta actgaatata aaagctgatg ttaacatcaa atagattaca tcaatttttt 360
aaccaaaccg atgttaaadc aactccctaa catc 394

<210> 4396
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4396

tagtaaatat ggtccaatga aggaggtgaa gttttattga gaaggcaaat gggaagtcga 60
atggctattg tcaagttgag ttatttgacc cttttgctgc tactacttgc aaggaaggga 120
tgaatggatt ttttttaatt ttaatttaat ttttcattct aaattaattt taatttaatt 180
aaaatatgat gttatatcag atgacaagtg gtcagcatac atgtcacact taatctaacg 240
tgatatcaca agtagtttgt cgacgtatca aataaataac cacatcagca attaatggat 300
cctttntaac gacagagacc tcatacaaaa ctttttaatt atagtgaccc atctcannaa 360
tgaaaaatta tgaggaatca aatgtaaaat tcaagtatat atcangggat caaaatat 418

<210> 4397
<211> 366
<212> DNA
<213> Glycine max

<400> 4397

agcttatctg ctataagtta gaagctaaat aactaaaagc ttatatcttc tagctgattt 60
aatttacagt atttaataag actaatatth aaaaaatata aatgtcaa at gatgaaaaat 120
tatatatthta ttattttctaa catttaaat ttatgtctaa taaatttcat cttaaaaagt 180
aggtaaaatt ttaatctctt ttgttgagg ttccaatgct atacaatgga ttatgcataa 240
ttttgatatt ttatcatca actctgattt agaaaccaa tattttaacc ataatccaa 300
ataacaatg caataattca ttaaaataaa tagtttgaca ttaataaat taataaaaaa 360
gtagaa 366

<210> 4398
<211> 440
<212> DNA
<213> Glycine max

<400> 4398

ctcaagcttg taggtacat ttacaacat acattggctt tgaactctat gaggaaattc 60
acactttaaa ctgaattaga gacatggagt tacaagattt gctaccactt tcttaacttt 120
gcaaagattg cataagcaa agccaatct tagaaggatg ttaattcag atgaatggtt 180
gaagtctaag gcagctaaag agccaaggg gaagcaagca acagatggtt ttcttatgcc 240
atcattttgg aatgatggtt ttatgcttt aaaggctatg gggcctcttg taagtgtgtt 300
gaggttggtg gataatgaaa aaaaacctac aatgggtttc atttatgaag caatggatag 360
ggccaaagaa gcaattcaa gagctttcaa taacaatgaa gggaagtata aggatatcct 420
ttgcatcatt gataaaagat 440

<210> 4399
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4399

gatccttaag tcacctgagg catgaagctt ggtacctct tcttcactac atcaagaatc 60
accgggttga gtcttctctg tggctgtgt cgcaacctac ctttcggagg gagggtagcg 120
catgactcgc ggggtgatgt tccaagaaag gaatatgcgc ggagtcgcca ccaacgttta 180

<210> 4402
 <211> 278
 <212> DNA
 <213> Glycine max

 <400> 4402

 tgaattgaac aatggaagat cttgagaaat tcaatcggtc ttaacttttc actcggaagt 60
 ccgattcacg cgcataatat attgagacgc tctcgtgaaa ttcaaattgg cataactttt 120
 cactcagagg tccgattcat gcgcataata tatcgagatg cacataattg aacaacggaa 180
 gctctcgaga aattcatatg gtcatacctt ttaactcgga gctctgattt aggcgcataa 240
 tacattgaga cgctcgaaat tgaacaatgg aagctctc 278

<210> 4403
 <211> 385
 <212> DNA
 <213> Glycine max

 <400> 4403

 agcttcatgg gaaaccagtg gttgaagggc aagggttgat ggtgaagttg atgtgcggga 60
 gtcataatca tgaattgcga agtcattagt tggacatcca tatgctgagt gattgactaa 120
 ggatgaaaag ataattattg ctgatctgac aaagtcaatg gtcaaaccac gaaacattct 180
 gctaacgttg aaggagcaca atgtcaatag ttgtacaaca atcaaacaaa tatacaatgc 240
 aagaagtgca tatcattctt ccattagagg aagtgatact gaaatgcaac atctaataa 300
 gcttcttaaa cgggatcaat atatttggtg gcatagatta aacgatgaag atgtggtacg 360
 tgatatcttt tggatcacc ctgat 385

<210> 4404
 <211> 350
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4404

 tgtagaaatt gattacttaa tttttttttg agacaatgat tgattttatc atgaatctct 60
 gctttaatcg attaccatgt gatataattg attacttctc ccttaaaaag tgtatcaaaa 120
 gttatcaaga acacattgat caattacatt gaggatctag tcgattacat tgttcttaaa 180

agttttctag ttctcggaag aacactntaa ttgattgaaa tgataatata atcgattaac 240
 tgatggaagc ttgcttgtgg tgcttctatg gaggctggat ctttgagctt caatgaggtc 300
 ctttaatggt gatttctcca ccatggagat gtagcggaag acaaaggaga 350

<210> 4405
 <211> 336
 <212> DNA
 <213> Glycine max

<400> 4405

agctgttga gtagaaacat ttgaccaatt cattttatct cagaaaaaga aatcatatct 60
 agtcaaggctc tgagagacca tacaaatttc ctaacgattt ctaattatgt gggccattaa 120
 gactatcata tgctgacaat acccgacaag cccatgaatc tctttcgggg cggagtaggt 180
 gtctgccatc gccttggcct ttgcttaciaa tcggcggaagt tcttgactcc cgttcaaggct 240
 aaaagcaaac cgatccatcc acatgggttc ctattgggtg agagagatga tacccttcc 300
 tttagcttct atctccgata tacttgggca tactca 336

<210> 4406
 <211> 401
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4406

tttcgattca ttctatgcac ccatgtgtgg tccacattgc gtttcgtgca tttttactct 60
 cgttctgtgt actttttata cccctcttg acgtgcttaa gccgntttac ttaagtcatt 120
 tctcgcttaa cttataaata aaataaattt ccaccgaacg tttgaattat attatccgtt 180
 aacttcggtt aaaatcattt ccgaccgttc ggacgtgccg taaccacgtt ggaaatcaaa 240
 aagagggtcaa aaataatata ataataaaaa aatatctttt ttagtgaaat aaagcggaaa 300
 atcaatcgga cgttttctct ttgggatttc tcattcttaa tcgaattgat taataactaa 360
 ggtgaaacta aggctaacat caactcgcct agtcgagctc g 401

<210> 4407
 <211> 374
 <212> DNA

<213> Glycine max

<400> 4407

agctttggct attcaactat cataatTTTT gactcgaatg tatgatcgat gccgattata 60
tatcccgaca ctcaaaatgg aacaacagaa gctcttgaga aattcaaag gccaaaactt 120
ttctctcgga tgtctgattc acgtgcattt tatatcgaga ccctcgaaat tgaacaggga 180
agttttggca aatatcaatg gccatatttt ttagtcgaat atatgatcga cgcccatgaa 240
atatcgagac gctcaaaaat gaaataagac agctcgcgag aaattgaaat ggttataact 300
gtttacctgg atgtgagatt tacgcgcata atatattgaa gttttgaaat tgaaaacgaa 360
aagtgttggc taat 374

<210> 4408

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4408

tcacaacaca gcaacacatt atctaggngt ccaatacact cttaatctaa gggagtntct 60
aggtttgaga agtgaaaccg agaatgaggt aaatttgaag caaactctca cctcacacaa 120
gtccataaca tgaatttaaa cttgtttcaaa ctggatttac acctaaaatt tcaccgaatc 180
aaaatttgac ttttcaacac ccaaatttac cctagaaatg gctctttgtt cactttggtc 240
atttgttttt ctctctagca cageccaaac tttctcatat gttctaaatg gcatttcatg 300
ctaggattaa ctacttttaa cctccattta ccacagaatc cagattgacc ttccaactct 360
catagcctca cttctttttc actcataaca ccacattctc ac 402

<210> 4409

<211> 362

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4409

agctattcac ttttcatcga tggacaaatt atgtcctgat atcaaaaaat aaatttccac 60
atcctcattg cataattgaa tgaggaaact tgtgagaaaa acaagaatac tgagggctca 120

gccatgagca cataaaaaatt gagaacgaaa acctattgag gtagtcctac aaccaaacct 180
 ctgcagaaaa tacatagttt tgtaaagatc cagtactgaa gcaaataaac atgttgagaa 240
 aaatgttgtc aataaagaaa gatataagtc atgtggtaat cttggtcctg cgcctattga 300
 acccctacaa aacgagcata atccacccac ctgccaagga aaaatacaga anatgaccac 360
 tg 362

<210> 4410
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 4410

tagatgtagc ttttgggaga ataagagcat gccaacattc ttagatgtaa tacttgggga 60
 aaaaagagaa taccagtcca attcctatgc caaatacaag tctccaagc accaatacag 120
 gaaaattagg agctaagtct gttacaagag ctccaacaag ataaactact gcagctccaa 180
 tcagcttctt tcttctacct aaatataaaa tttgtcacag cagtttcacc aggggaaggaa 240
 atagcgaaga ttataactga caaaaaggga aattacctaa gaagtcagca acattgaagg 300
 ccaacaagga gccaatgaag gcaccataca atgatccact agtctgcaaa agaagcaaat 360
 gccattgccc cagtttatat tcaagatcaa tatatggagt aattac 406

<210> 4411
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4411

cgcgcnacann cncncncnnt ttganncntt gcattgtncg tagtatagan gacgtaagct 60
 tctagaanac tagtgggttc tgaattatat gaagccagta tataaacatc ttatccttgt 120
 ataccagttt cactagtgtt agccttgatg tacccttcgt gacagggtag acgtggggac 180
 acacaccaac ggttcacctc tctccttttt tctccttcaa attcgtggcc ccccccttc 240
 tttcttccct ctttttttcc tccttgaagc atcctctcca agttcttctc caggggtcatc 300
 ttggggggga gctccttctt cctggccttat tcctaatgg aagggccttc tctacccct 360
 ttctttgttt tcgtgcgtct catggggaac aacccttcaa ggcccctttg agcctcaaga 420

ccgccctcta aaagccccac gcagggtcat aagtacatgc gggccg

466

<210> 4412
<211> 209
<212> DNA
<213> Glycine max

<400> 4412

ctttccattg atgacaattt tgcattgttt atgtatgtct tgggggtttc cttttatcaa 60
tgtaacgctt cccacttgcg gtagtataaa taggtcatca tgtggattag tgtggaatct 120
ttgacgatgc aggaagcaag accttgccga tgtataggta ggaccatggc ggtcttcgaa 180
aaagtagatg acaaaaaatc atcttaggc 209

<210> 4413
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4413

tctcaaggaa gttntctcaa gaaagcttct caaggaagct acctagtcta taaatagaag 60
catgtgtaac acttggtgaa ctttgatgaa tgagagtctt gtgagacaca actcaaagtt 120
caacttctct ctttttttct tcttcaatt tegtgtccc cctccctctt tctctccctc 180
tttcttttcc tccattgaag catcctctcc aagcttctta tccaagggtc atcttggtgg 240
tgaagctcct tcttccatgg cttattcctt aatggatggc gcctcctctc acctccttcc 300
ctttgtcttc cgctgcatct ccattggtgga aaatcaccat taaaggacct cattgaagct 360
caaagatccc agcctcatag aagccccaca agcaangctt catc 404

<210> 4414
<211> 116
<212> DNA
<213> Glycine max

<400> 4414

tagatactaa gttccggtc ccgagagcat ctcttattta agcatttcag ctttgcttt 60
cttgtagctt aggaaaaatg ccatttcttc ttctttcttt cttccaaacc catttc 116

<210> 4415
 <211> 206
 <212> DNA
 <213> Glycine max

<400> 4415

tctgattgcc tttgaagttt gaaacctctc cagacatatc tcattatcac tcttcgaggc 60
 agaattttcc acgttgccct ttgtgctgag aataaaatat tcgcatccaa atggatgtac 120
 attggctggg tgggtttcac cccttcata attcataagg agtatttgta agggtaggtc 180
 ttatgtaaac tctttttgaa gataac 206

<210> 4416
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4416

agcttatttt catcaaactc tatgttaata acttcttcaa ctaccaaggt tcttgagtta 60
 tacactctga gtgcctttga agtttgaaag tatccaagaa atatctcatt atcacttttc 120
 gagtcaaatt ttcccaaggt gtcctttgtg ttgagaataa aatatttgca tccaaatgga 180
 tgaaaatatg ttatgttggg ttcatccct tccataattc ataaggagta tttttaaggt 240
 taggtcttat gtaaattctt ttttgaagat aacaagtagt attcactgct tcaaccaga 300
 agtgtttaag ggttgaatta tcattaagca tgggcctagt catctcttgt agatatctat 360
 taattntttc aattaccct g 381

<210> 4417
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 4417

agcttctcat ccttagtaac agctactact ggacacacac aactacatat tgtgttccct 60
 ctctgaattt cggaagtaat agtccttga ctactcttct aatttctttc cctctaattc 120
 taagggatgg actctacact ttttgggata tcttttactt aggtccatt gatgaattta 180
 ttacatgca ctctttttaga tttgaatcta ctaactccac ctagagcggt ttggctatag 240

aagttccttc taataacggg ataattatct cacttgacat taccctcact ttttggcact 300
 tattccttgc aattttctcc ttcaaatttg aacaatttat agagtgatag ggagctagtc 360
 gttggtgtga ccattggacg atgaattcaa cattcaaattg ttgcatgagt ta 412

<210> 4418
 <211> 354
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4418

ngctctanat ttacattgat gtttgtatct atgggaggaa gttgcatgcc atttttgttt 60
 taagagtagt gtccactgg taaaactaac ttccaaatg tttgccttcg caggaaatgg 120
 acccgaagaa gcttgctca aagagggtcca ggaaggacaa ggcagccgaa ggaactagtt 180
 ccgctccgga gtatgacagt cacctgttta ggagcgctgt acaccagcag cgcttcgagg 240
 ccatcaaggg atggtcggtt ctccgggagc gacgcgtncg gctcatggac gacgagtata 300
 ctgatttcca cgaggaaata tggcgccgcg ggtgggcac actggttact ctca 354

<210> 4419
 <211> 412
 <212> DNA
 <213> Glycine max
 <400> 4419

agcttgaaga gaatggaaga gggaggatat taaaacttga gatagcaaca tggaaagaaa 60
 tgaagggtgtt tatgaggaag acattcttac caccttcttg tgagaaagat gcttatgaaa 120
 ggcttcaaaa cctcacacaa ggtagcaaga gtcttgaaga gtaccatcaa gaaatgataa 180
 tgactatgag gagagctaata tacaagagcc taaaacttcc atggcaaggt tcctatgtgg 240
 gcttaataga gacattcaat gcattgtgaa gttgaagcac tatgaaagtt tggaggatat 300
 ggtgcagaaa gccaaagaaag tggagagaca acctgagagg aagcattcct acaagaagac 360
 ctatcactat gacttttcta gtggtaaaaga caagtccaag aaggagggat ct 412

<210> 4420
 <211> 421
 <212> DNA

<213> Glycine max

<400> 4420

tatcataggt ggggtagttg agggaggcac tatgaat tttt ttcactaaaa taatttatag 60
gggtgccacc ttgtaacaat acagctccaa ctccactcc agtggcatca cattctagct 120
caaaagg ttt agaaaagtca ggaagagcta gaacatgttc cttattaagc ttttctttga 180
gaaaagcaaa ggcttgctct tgtttttcac ccaagtaa ggcacattct ttttactag 240
ctcattgaga ggtgatgcaa ttgtagagaa attaggaacg aaccttctat agaagcttgc 300
taacccatgg aagctcctaa tatctccac actttttggg gtgggccatt cttggatggc 360
cttgatattc tcagggtcca cttggacccc atttctacca actaccaacc ctaagaaact 420
a 421

<210> 4421

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4421

atatatagat tggctgcttc aggcgctttc cagaatttct tttggagcac tcaaacacgt 60
acatggccaa ccatcacaac taggggaggt ggatcaatgc gagaactatg ccttttgtgg 120
tgaaaattct atttgcatgt atccaaatat tggccttctg ttttgtttgc ttgtttaagc 180
tttttgaag agtcggcttc atatatagcg atttccggta attatacatt ttgtatataa 240
aatgtgtctc tacatgggtt tgattatgat tcttaataa cagccaatat tactttatat 300
atatatatat atatatatat atatatatat atatatatat atatatatat 360
atatatatat ataagagaag ccatgccn 388

<210> 4422

<211> 361

<212> DNA

<213> Glycine max

<400> 4422

tgccgcgaca cctaaattcg atgtacggca aatcctcatg cgggatcagt tggaacatgg 60
atgccagagt ggcaagggca tcggccatct aattctccac tctggggatg tggtgaaagg 120

atacatcatc aaagtactct atcagttttc taatgtaggc ctggtagggt atcaacttat 180
gatccctggt ctccctattct actttcaatt ggtggattac caaggctaag tccccatata 240
ccttgagcaa cttgaccttg aagtcaattt ccgcttgat cccaagggca tacgcctcat 300
attcagccat gttgttcgtg cagtcaaagc ccaacctagt cgtgaagggt atacattgat 360
c 361

<210> 4423
<211> 403
<212> DNA
<213> Glycine max

<400> 4423
agcttgacac aatttatctt tctcaaactt gagtttctga agaccaatta ctaagtcttt 60
cgtaactaga tgagttagat tatgcatatt agtatgtgca gtcctacaat gccacaacca 120
tgaatcatct attttactca ccaagcaact aagctcatga aaagatgcat gctcaatatt 180
cagcatatag atgttaccta ttctcttacc aagggtggaca actttaccgg atatggcttc 240
acttatcaga caacaatttt tgttgaattc aatcttgaca cctttatcac aaagttgact 300
aatgcttata agactatgct gtagtccatc cacatataac acattcttta tctgattttt 360
gaggtgatcc cctatatttc cttctcccat tatattacct ttg 403

<210> 4424
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4424

tgcatatgga attgcgaaag cccccctcca tcatgaggat ntgttctctgc catctcaaac 60
aaacatatca aacgtatcaa gacaaatata gttggtgttt gaatacctcg ccactcaag 120
tgtatcacac aattatggct tttctctaata gaaacactct tgccttttac cactctaatt 180
ccccctgagt tcttaggcaa ttcaagagat tatggccaca acaaagaaca attcaccaat 240
atgtgtaagg taacgctaga gagacaagga aaagggttaac caagacaaag gctaacaatg 300
ttattaggca caaatgaagg aaataaaatt ctgaatctat gaattcaagt aacaatc 357

<210> 4425
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4425

agctntataa ttagtagtga ccatacccta atatagaggt cagtgaaatc tcacaagtgc 60
 atatctttgt tctcatgtga aacacactgt ttggtcctag ctagcttttc ccttgccatt 120
 ttctacctag cctttcagag atcacatgta gtgttcctt catttcattt ggaagcaatt 180
 tgaaagatat cactctttga aaatgagggt cctctgtttt ttactttttt gctaacaatt 240
 agcatacata cacgagctac aagcttagtc aactcaacta agattacgct atgcaaaagc 300
 tgcaatgtgt ctaatgtcta tgctcgagcc aaagcttctt attagaaact tttgtgaggt 360
 ttatagatac aatacaattt acaaacgttt ggatagaata agttactta 409

<210> 4426
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4426

tcaatttgct tggatagcaa cttgttatgt gccacaatg catcatatga tgaaagttcc 60
 agcacgcttc ttttggttgg gatgtccttc agcagtcttg gactctgtga agtatttctt 120
 caagaatctt tcaaccactt catcccaagt ctttaagacta ttaccttta atgaatggag 180
 ccattcttgt gcctctccag acatggaaaa tgaaaacaag ctcaatctaa cagcatcttc 240
 atgcacgcc gccagtctga cagtgttgca aatttcaata taagtggcta gatgtgcata 300
 caggctcttct tttggcagac catgaaacan attgttctta atcaactaaa ttaatgaatg 360
 tggataggtt atatttt 377

<210> 4427
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 4427

agcttggaga ggatgcttca atggaggaaa agaaagaggg agagaaagag agatggggga 60
gcacgaaatt gaaggaagaa aaagggagag aagttgaact ttgagttgtg tgtcacaaga 120
ctctcattca tcaaagttac aataagtgtt acacatgctt ctatttatag actaggtagc 180
ttccttgaga agctttcttg agaaaacttc cttgagaagc ttctttgaga aaacttcctt 240
gagaagctag agcttagcta cacacaccct tctcataact aagctcacct ccttgagaag 300
cttccttaag aagattccta aagaagcttg agcttagcta cacatacctc tctaatagct 360
aagctcacct tcttgagatg agaagctaga gcttagctac acaccccc 408

<210> 4428
<211> 415
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4428

tgaatgtagt tccatccctc cttggagggtg actgcaaatt gagttgagaa tgagcgagaa 60
aggttatcaa cgttagtga ataaacatta tcaaagttgt atgagtagga gttgtgggtt 120
tattggacaa ccaactggcgt gaagaaccac acacactctg gacattgatg ctctattatc 180
cacatctcta gtatagttag taagactccc aagaattgag ttctggatat ttcttgatct 240
ttcanatacg ttctctccac accttcccaa tgtgttccac aaccacaagt tctaataatta 300
tgattaagaa taattggtaa atgagaatat tatcattatt aaacgattaa attgagtgat 360
aataatataa aaagtgaacg ttgctattca tagttctaaa ttcattcttt cttta 415

<210> 4429
<211> 404
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4429

agcttggtga tctcttcctg atgatcaaca caatattgca tttgctgctt caattttggg 60
ctgcagattt cataagcaat gcatttagta tgtttacttg gtaggtttta attttcaata 120
aaagtaatta attttttttag aatttaattt tttatgcaag gtcaatgtga gttcttgta 180
cacaaatgta attcatttta ttacatatt acccaattca ttaatatgat gcagtgaatt 240

tgtattaaaa aaatatactt ttaattatat ataatataga agtttttagca ttttagcaact 300
 cactctttta cacattttta tataagaaat tntattatac gttaaaattt attanaaaat 360
 ataaaagaaa aaagactcac aaaaattatg aattttaatt aatt 404

<210> 4430
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4430

tatgctgcaa acatttataa tagaccctct cagtagctta accaacaaca atataataat 60
 tatgatcttt caagcaacag atataatcca ggttgaaga atcatccaaa tctgagatgg 120
 gcaagtcttc cacaacaaca acagcctgtc cctcctttcc agaatgctgc tgggttcaagc 180
 aggccatatg ttcctcctcc aatgcagcag caacaacaac aacaaagaca acaagcagct 240
 gagggccctt ctcaaccttc cttagaggag ttagtgaggc aaatgatcat ccagaatatg 300
 caattntagt aagagacaag agcctccatt cagactctga canattagat agggcagatg 360
 gctacttagt tgaaccaagc tcagtcccaa aattctaaca aattgtcttc ac 412

<210> 4431
 <211> 387
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4431

agcttgctga atattccaat gtagaatatc ggttgataa aaaaaatgta gaaaacaatg 60
 gagaggaagt attgaagtaa cactaactaa taaatatttc ttgagcacca ttgcagatac 120
 tcccaagtc caccatagat gttggtcaat cttgttgctt tctaactagt ctcaaataac 180
 atcactcaat caaataatca aatgaaaaat caactcatat ctcatgcata ttaatttttc 240
 acttcaccgt atacaattat aaaatccttt tttttcataa gctataaatc aaatacttat 300
 atatcaattg aaaatatctc ataaggtaaa atctaatacca acctttacca taagcttttg 360
 ttaagcaagc cagacacana catatac 387

<210> 4432

<211> 389
 <212> DNA
 <213> Glycine max

<400> 4432

ttagaacaag ctaaacaatgc atactattaa ctgaaacata aatatatacc cacattataa 60
 aatgtgcfaa aagcacgaaa tgataataaa agtgttcaaa agacaggaaa atagaatata 120
 aatcctgtca tgagtcctag tgatgcttta aatgggtcat catatggagc ataaggggca 180
 aaatccatgg ctgcaacatc atcttcattc tcagagagct ccatcaccgg tgtcgtcatt 240
 ggggatgcct atagaataga gagctccagc acacgtgtgg tcaactgggtga tgctgtgga 300
 gtcgtctctg gagttgcctc cgcagagtcc tcatgagtag ctaggacagt ctctgggtca 360
 gcctctggca tgtctagctc ttcgatatc 389

<210> 4433
 <211> 347
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4433

agctttgaaa tttatataaa gcctgaagtt gttcatgtta tacaaagtaa atcgagaaga 60
 acaagagaat attttgaggt aaaacaaaca agtattgtaa tgctatcagt tcactagggt 120
 aataaacaag aattgttttc agttttcacc aaatgattgt caatgcatta aatttaattt 180
 tttgagtgea tcctttttct gctagttaca gctctctagc tacttatcac aatttcacaa 240
 tattcttttt tgtatttaac ctcacattta ttataatcta ttactattta aagtatatgt 300
 ttttgaaggg tgggtggatnt acatttgcaa gttcaatatc catctac 347

<210> 4434
 <211> 174
 <212> DNA
 <213> Glycine max

<400> 4434

tctagccaaa tgagcgtacc ctgaattaat tcctttgata gccctttga gcctatgttc 60
 ccctttcttt gttttgaagc tcattacaag ccttaagtga aaaaccatga taccctaccc 120
 ttaaggaatt ttggagcttt ggaattgttt tgggaataag tgtgaggggg gggg 174

<210> 4435
 <211> 378
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4435

agctntacag catattntag taatgacctc ctaacctaga attaaaataa cttaatgccca 60
 ttaatctagg gaattgaaaa aaacttaatg gctgagtgtg actgaaatag tggcaaccaa 120
 aagtcacccc caacagccaa cttcagccac catttggtct ccanaaggc tgatgcctag 180
 gatgccaaatt gggcccttat tacaacttga actaaaccta ctaaagccct tttagggtgat 240
 taacccaaaa catatttttg gtcagccaac tctacaagga ttgggccatt atttatacaa 300
 actaaacact ctaaaattga gacaaagtgg tgccatttaa ttcttctcca ttttggccat 360
 gatacaactc acaacctt 378

<210> 4436
 <211> 404
 <212> DNA
 <213> Glycine max

 <400> 4436

tataatatat tgatatgctc gaaactaaac atcggaagct ctcgagaaat tcaaattggctc 60
 ataacttttc acacggatgt ccgattcggg tgcataatat gtcgagatgc gtcaaagttg 120
 aacaacggaa gctctcgtga aattcaaattg gtcataactt ttcacactga tgtttgattc 180
 aggettataa tataacgata cgctcgtaat taaacatcgg aagctctcga gaaattcaat 240
 tggtcatcac ttttcacacg gatgtccgat tcgggtgcaa aatatgtcga cacgctcgaa 300
 attgaacaac ggaagctctc gagaaattca tatggtcata acttttcact cggatgtccg 360
 attcaggcgt atcacatata cagacgctca caatttgaca acgg 404

<210> 4437
 <211> 335
 <212> DNA
 <213> Glycine max

 <400> 4437

agctttataa gtgcgggtct gggagactaa ggtcaagtgt tcgcaatatg cgaagatgat 60
 gttccaagta ctttggattt ggtacgacca tgctctcttg atttccagct gggaaattgg 120
 cgagtggagg aacgccccgg catttacgca acaagcataa tgtaaaccctt tacgggtttta 180
 aaaagctcta tagttgggcc taggctttta agttttcatt ttgttaaggc tttgtgtctt 240
 ttgtttttga atctataata caaggatctt tcttcatctg ttcttgggtct ctacccattc 300
 tcattcattt gcatggttac ttctttttct aaaac 335

<210> 4438
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4438

tggtcacctc cttntcacc acatctagaa tgatgggggtt gagtcgttgc tgtggctgcc 60
 tcaactggctt agctccatcc tctaaaagta tcctatgcat gcaggtagat gggctaattgc 120
 caagaatgtt ttctaaagtc catccaatgg atttcttgtg cttcttgagc actagcagca 180
 acttctcctc ttgctcagta gcaagggagg canagatgat cactgtanat tnttccttgt 240
 cctcacagta agcatacttg aggtttactg ggaaggactt caactctggt gtgggtggtg 300
 gctgaacagt gngaggaacc acngtaggag aagaagaaaa acgttctcgg cttgtacctc 360
 ataaagcaag taagaagata tgtaccttct gcaacatg 398

<210> 4439
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4439

agcttggcac agtcatgcct tcctgatttc caattaggaa attggcgagt ggttgaacga 60
 cccaaggttt tcatggcggg cataatgtaa ttcttttagct ttaaccctac aactgggcct 120
 aggctttaga gtttttctcc ctgttaaggc gttatgtttt tgctatcgag atatataata 180
 taagatcttt ccttcatctg ttcttgcacc ttcaccatt ctcattcatc tgcatgttta 240
 tttctgttgc gattaatatg tatagatccg acgatgagtc ctgcgaaggt actaataccg 300

agggccctga cggttgattnt gaacgagtag caaaccaagt tgaggatgaa gaagatgaag 360
 atgcgnggtt tctcccgag ctagaaagga tggtcac 397

<210> 4440
 <211> 365
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4440

tattgggcat taaagttttt gaacttcgat tcanatgcat ctagtgaaca caggaagctc 60
 ccactccatg anatggaaga attgtggttt ccagcttatg agaattccca gctttataag 120
 caaagaagta aaatttatca tgacaaaaaa gttgtcaaaa aagaaaattt tcagctttgg 180
 tcaacaagta ttggtattta attatagatt aagattgttt ccaggtaatc tgaaatccaa 240
 gtggttcgga ccattcatca tcaaagaagt tatgccacat ggagcagtga tattggagga 300
 cccaactacc anaaggacat ggaccgtgaa tggaacataa taaacactag ttagatgata 360
 tttca 365

<210> 4441
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4441

agcttatnt atacacagtt ttcattctga agtatctgtt gtctcacagt cggtggattc 60
 ttcactctga tttcgtcta aagtcttaag tctgttattt aatgcaaaca ttaaattgtac 120
 atctcttctt catgcaaat ccattggtgat aggatctgtt gtcttttaca tcaacaggaa 180
 agccactttt ttcattataa catgtatgca acaacaaagc gtgcttttta atgaggatca 240
 acgtctttca gactgtagac tttattcttc ataggacttt gacagatccc atgagaatgt 300
 tttctacttt aaagaatatt agacatagag tattaatga aagtcttaat gtattactta 360
 attgttacat catatcgtct tacgagtga tcatctaana act 403

<210> 4442
 <211> 412
 <212> DNA

<213> Glycine max

<400> 4442

ctccgcttca tcagtggat aaagcacaag agcttcaaga tttgctcctt aaacctccat 60
 taatatttcg ctttaccttc tcttccattg tgtgttcttc attttttttc tccatgtatc 120
 tcctcacatg tcttgtgcta aatgggttta acatcattct ttagagtctt caccgattaa 180
 acttgctata gaagctagat ttgaatatct atgggtcaga attcttgctt ttgttcttga 240
 accatgaatt gtgttgagtt taggctcctt tgagtttagc ttggtatttt ctccgggctga 300
 aacctaatac ataaaattct taaaaagaat ataaaggaga agaaaacctc acaaacttag 360
 agcgacttgt tcacctattg gtagtttctc atagaagaca tgtctagtca tg 412

<210> 4443

<211> 408

<212> DNA

<213> Glycine max

<400> 4443

agcttcacat gtttgagtggt actcgtctag tgaacatct acttgatcct aaagggtttt 60
 ctcaattttt aaatgatctt tggatagatt cttgaaattt cattgtaggt ttttgtaagc 120
 ttttgagaga atagactagt tagatagaag ctcatgataa gcatttctaa gagatttagg 180
 gtccgaaatt tacctcatct tcttagtctg attcaaactc ctccagagggt gtatttctca 240
 tcaggcatat gtgggcttct tcgttctctt cattagatga ggtgttctcc aggtcttctt 300
 tcccactgct cataagaacc ttcttttctt tagtcttgaa gaatttcttc ttatcttgac 360
 ttttctccag atctagacat tcaaacttag actttttata ctccgtagc 408

<210> 4444

<211> 427

<212> DNA

<213> Glycine max

<400> 4444

actcagctta agccaggcca gactcgtgca tgcagaggct tctatggaaa aatgccaaac 60
 tcctacaaaa aatctgattt caagcttaaa taagtgggct ggtccgtgct tgcgcgctta 120
 gcgcaaactt taattgctta tcgcacatat gtggattttg gcttagcgcg cttctctcgc 180

ttagtggata agctgaagcg gtgcgcttga tgacctggag cgatgcactc agcgaacctg 240
 acagcttatac ttcttctggc ttcttctcgc cgcttagcca ctgagtgccg cgcttagcga 300
 atgctcctaa gccaacagat tggcttatcg agaaggtgaa aacaacactt tttccaattt 360
 gcctaattaa cctgagattg agagaaattg attattaaac acacaaaaca aaaatataaa 420
 ttatcta 427

<210> 4445
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 4445

agcttataat aagaaagtga agtcaaattc ttttaatggt ggagatttag tttggaaggt 60
 tatcctgccc atagatagta aggatcgagc cttgtgcaaa tgggtcccaa attgggaagg 120
 accgttttaa ataattcaga tctattcgaa tgggtgcttat gagtttagagg agctaacccc 180
 tcagaaacgt actttgagca taaatggtaa gtatttgaaa aaatataaac caacactgct 240
 cgaagttaat ataagcatag aataagagaa atacgggaaa cataaaaatg gcgataacag 300
 taaattgccg cgaaagggca tgtgtcaata ttacatcgag aagtagaatc gaaatacaga 360
 attcgaaata aagaaatcat aagttctact aagtcatgac caaatcttca ta 412

<210> 4446
 <211> 380
 <212> DNA
 <213> Glycine max

<400> 4446

tgtaagaatt gcaagatcat cttccttgac aactccttga taattattgc catcaatagc 60
 cagagatgac aatttagaga gtgatccaat acttttcaaat ggatttccac tgaatttatt 120
 aatagacaga ttgagatata ttaatgatga aagttttcca aatgatattg gaagagcacc 180
 accaattaag ttgttggaag aatctagcat gtcaatattt ttaaaagccc caatttgatc 240
 tatcagattg cctgaaagtt gtgaactccg aactgcaagt gttgtgattc cctatgaaat 300
 acaaggagca agaatttcta aaagttcatt aacctgttgg ttgagtttga gatatgataa 360
 acctatcttc cttaagttgc 380

<210> 4447
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4447

agctngctcc actatatttg gattggatca taaagtttgc acccctgaat caataacatt 60
 ntgttcactc attgatggct tggccagaca tggcaagggtg aatgatgcct atatgcttta 120
 tgaaaaaatg ttagattatg gtcagactcc aaatgcagtg ttgtatacat cccttattag 180
 gtactttttc tcgtgtggta ggaaggaaga tgctcacaaa atttataaag agatgatgta 240
 taagggtctg tctcctattc cttgctcctt aataattaca tggattgtct tttcaaagct 300
 ggtgaaattg agaaaggatg ggctctattt caagagataa agcctcaagg tctaacttct 360
 gatgtaagac gtattcaatt tttattcat 389

<210> 4448
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4448

actcaagctt gtcctaagct ccctttcata gtaagagga atgtgcctct tcctaagggc 60
 actcttaaga tcattccaat actctactgg aggatcccta tggatccttc gttcgagctt 120
 gtccataagc tccttttcat agtaggaggg aatgtgcctc ttcctaaggg cactcttaag 180
 atcattccaa tactctattg gagaatcccc atgaatcctt tgttccctaa aaaggggaagt 240
 ccaccaatag agggcatacc cttganagct aatggtagcc aatggaactt ttctctcttc 300
 gctaatatga tggcaagcaa agagttgttc aaccttcatt tcccaatcta agtaggcctc 360
 aacattatct tttccatgga aatataggag gctaattgga tcctcttgaa gccttattnt 420
 cttttctctt atttgg 436

<210> 4449
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 4449

agctctgagc caaaatcctg tctcaccata taccttgacc caaggtgaga atgccaatcc 60
ttaccctctg gagcgaaaaa aagatgagaa ggaaatattt tctatcaaag gaaaaaggag 120
aatgaaattt tccaatccta gaggaagcat aacaggagag aatgattatt tccaatcgaa 180
ggaaaaatga gaagaaagga aattcccaat cacagagtgg gataaagcga aaagaaaaga 240
cagaatattc tccatcatag aatgggagaa cgattttaga gatgtccata acatgattgt 300
tcttgatcat tgaaactaga aaaaatgtgc ctaaagatct ttgaccaga tgatatctga 360
acaatacata attgt 375

<210> 4450

<211> 338

<212> DNA

<213> Glycine max

<400> 4450

tttaattgaa tccgcaccgc ccaattgtgt ctgtaaatgg tgtaatcgat taccagatat 60
tggtaatcaa ttaccagtgt atctgaacgt tgaaattcaa attcaattgt gaagagtcac 120
atcttttcat aacatgcttt gtgtaacgga ctacatgggt tcggtgatcg attaccagtg 180
acaagttttg aataaaaagt caagagatgt aactattcca acgcgtttta ggttttctca 240
tggttataac tcttccaatg gctttcttga ccagacatga agagtttata ataacaagac 300
cttgattatc atttaataac tatttataac tttttgac 338

<210> 4451

<211> 409

<212> DNA

<213> Glycine max

<400> 4451

agcttaaaga taaattaaga ataatgattg aatatcttat cttatattct gataatatat 60
tctatcaaat acaaaactgat tagttaggct aaaaatactg atataatatc ttatcatata 120
ttctataact cgtaaattac ccacaaaaa ttatttactt cgaaatcttc tagctgaaat 180
ttcttggaca aatttccaaa ttcaattgta agcattatta tcacagtttc agataaaaca 240
aaaataacat tacctctcta ctcttataat ccatacaaaa attatcatat taaggctatg 300

caacttcttc tgaattcttt ttaaccactt gatcaagcat aattaaaata tccaatatcc 360
aatgtcaatg gataaaaaca tgtagaatgg gagtataatt ctacatggt 409

<210> 4452
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4452

tctaatttta ttataccact agnattatat tatcataaaa taagtacctt ttggggaaca 60
catgtcaaga ttaatagaga aataaaatgg taaacattta aattaaagga gagattacca 120
aactctgtat tctaattgact aagacatgag acaagatggg gcaaatagtg gaagcatttc 180
catgactaag acatccatta tgataggagc cactgttaca tcccatgaca ctataataag 240
gtggagatat tacttttagta tgatacaaaa atattggtat aattcccaat taaatagatc 300
aagtaaaaac tatggagtat agacgatgga tccttgctta gacttatcta agagggaata 360
aaagagacta tactacgagt acataactcac aagatctggt aaat 404

<210> 4453
<211> 305
<212> DNA
<213> Glycine max

<400> 4453

agctattgta ttcaattttg atgctgtctt aactattaaa tgactcaatc ggatatccga 60
gtcaaaagct attgtcgttt gaatttgctc agagcttctg cttgaaattc gagtgtcttg 120
atttattacg ggactctatc gatcatccga gttaaaagtt attgtctttt gaatttgctt 180
agagttactg ttttcaattt cgggcatctc gatatactac aggactcact tccacttttc 240
agtaaaaagt tattgccatt tgaattttgt gagagcttct atattcaatt tcgagcgtcc 300
tgaat 305

<210> 4454
<211> 333
<212> DNA
<213> Glycine max

<400> 4454

tgtccaaaat gcagacaata ataattttta actcggatat tcaattgagt attgtaatat 60
 atcgagacgc tcgtaatgga aaacagaagc tcgtataaaa tgcaaatcgc aataactttt 120
 aactcggatg atcgagtggg tcccgttaata tatcgagaca cttgaaattg aaagcagaag 180
 ctctgagcaa attcgaacga caataacttt tgactcggat atccgattga gtcatttaat 240
 aattcgagac gctcacaact gaatacacia gctctaagct tattcaaattg acaataactt 300
 ttgactctga tgtccgattg aggattata taa 333

<210> 4455
 <211> 396
 <212> DNA
 <213> Glycine max
 <400> 4455

agcttgtgca tccaatacct tgatgaggat gtcccatatg ttcttaagac tggactgatt 60
 catttgcttc caaagtttca tggccttgca ggtgacgacc cgcacaaaca tttgaaagaa 120
 tgtcacattg tctgtccac catgaaaccc ccagatgtcc aagaggatca catatttctg 180
 aaggcttttc ctcatcatt agagggagtg gcaaatgact ggctgtatta ccttgctcca 240
 aggttcatca cgagctggga tgaccttaag aaagtattct tagaaaaatt tttccctgct 300
 tccaggacca catccattag gaaggatatc taaggataaa gacaactcaa tggagagagc 360
 cttgttgagt actgggagag attaagaaac tatgtg 396

<210> 4456
 <211> 365
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4456

tgtatactga actgagtatt gggcactcat tgcattgtctg atatgccttt tagaggcttg 60
 aaaagtgcga gaaaacaagc tatgttttct gcatttcttg gaaaacgcga tgaaatcgct 120
 aagcgagcat gctgcactaa gcgagttcat caatactcat tgtatataag ttttatctga 180
 agaactcgct tatcacactt actgtgctaa gcgagttcat cttntgagg atgaacactc 240
 atcctcttgc tgaactacct gtggctaagc gaggtgaat cgctgagccc gggtgactta 300

accaaatttc atggtgtag ccttgcacta agccgaggtt ataggagcta agcgcatthc 360
atcac 365

<210> 4457
<211> 288
<212> DNA
<213> Glycine max

<400> 4457

ctttgaattc ccatgttaat agctcgagga aatcagtgat gtgcacaggt aagctattac 60
atcttctggt catcgattac cagagagtta atttggtgaa aaagactttt taacttatct 120
ttcttggccc aaccttgtga tacgttcctt ggaattccct tcctatttaa tataccctct 180
ctaagactct agagactagg ttgatcatcc atcttgaata tcattaattt ctttgcctg 240
aataaagctt cgaacacatc gtaaactttg gcatcagtga aacattca 288

<210> 4458
<211> 240
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4458

agcttntcgg tatattatgc acctgaatca gacctccggg tgacaagtta tgaccatttg 60
aatttctcga gagcttccgt tgttcaattt cgagcgtctc gatattctat gcgcttgaat 120
cggacctccg agcgaaaagt taagaccatt tgaattgctc aatagcttcc actattcaat 180
ttctagcgtc tcgatattat atacgcctga atcgacctc cgagtgaaaa gttgtgacca 240

<210> 4459
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4459

tggaaggatg cttcaatggt ggaaaagaaa gagggagata atgagagagg ggggagcacg 60
aaattgaagg aataaaaagag ggggagaagt agaacttttg agtgtggctc tatagacttt 120
cattcactaa agttacaaca agtggtacac atgcttctat ttatagacta ggtagcttcc 180

ttgagaaact ttcttgagaa aacttccttg agaagcttct ttgagaagac ttccttgaga 240
 agctagagct tagctacaca caccctctc ataactaagc tcacctcctt gagaagcttc 300
 cttaagaaaa ttcctaaaga agctagagct tagncacaca cacatctcta atagctaagc 360
 tcacctnctt gagatgagaa gctagagc 388

<210> 4460
 <211> 149
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4460

agcttgagat taagaantgt tgaacggtga gacttcctgc tatcattgtt gaccacagag 60
 tgttacctga agatatgacg cgcggtgcaa gacaccttga ggacgttagg aggggagcta 120
 ttgcccaaaa ccaattttga ccaatcccg 149

<210> 4461
 <211> 366
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4461

tccanagatt ggaatcgctt ggtatcatatc tgagctggtg gtctagaagc agagctcttc 60
 ctcttcctgg atgccatcta caataaaaaa aaaaagaacc attggtttat tacactagaa 120
 gtctatctaa attaaaactg aaattaaaga ctgaaattga gaacgtgctc ttagcgagac 180
 gcatctcact tagcgcgctt tatgaaaaac aacacaccaa cttaacgtaa caggccgtgc 240
 ttagccggtg ataacatata aaaaaattct gcataattgg cttagagaga caacactcgc 300
 ttagccacat gtttgtcatt aatgacgtgt acagcagctg tgcgcacacg gtggtcgctc 360
 acccac 366

<210> 4462
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4462

<210> 4465
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 4465

tcggaagaaa gtgatgaggt acaagcccta aaggcagatc ttgaaagagc ccgggtagtc 60
 gaagagaaac tcaagtccat agccatcaaa gtctgaaaag agtatgatga actaaggagac 120
 gtcaatatgg ccacagctga agcctttgaa cgaaaaacca agaatgcccc gaaagaaaaa 180
 cagaccaat acaagttttg aggggcttta tagggcaaca atagttagct caagctccga 240
 agaggtgaaa ggaatcatca cgggtcaaag gaatgatctt 280

<210> 4466
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4466

agctntatgg ccatataaac actaaggctt atgggttttt tttccccgtt caaatcaaac 60
 caatgcttct aacaatgctc tttttatcaa tttacgaaca cattcgagtc catttaggaa 120
 tttgggaaaa aatttcattg cattcaccct ttaggggcac acacattttt tttttcaaaa 180
 atccatttat gttctgacc gtgaattttc caaagaaaac tggcgggtcat cttcttttaa 240
 aagcgtgtta gtttttttct tttggctttt tctttcaatc aatctctttt aagcaaaaat 300
 gattagaaaa ggtttgcaac ccgggcacag ttggcatctg agattacgct ttatcggaag 360
 gagtaaaagg cgtgcggata aaatacacag accoctatth ttgcatttaa 410

<210> 4467
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4467

ngaagtgaga aagtgtggaa gagtcagtct tctactttt attcgttgac cacagagtgg 60
 tacctggaga tatgtcgcgg ggggtcaagag accttgggga cgtcaagtgg ggtgggtattg 120

cccaaaacca agcttgacca atcccgaccc aaccoaagca tagtcagtca gtgagaacct 180
 gtgacgtacc taaacaggcg agctcctggc agtcaaccga taaaagaaca aagaccacaa 240
 agcaaggagg cttgtgtggg ggctggccag ctatggatct tgagtgatat ttgggttatg 300
 gcctctggta atcgattaca aaggggtgtg aatcgattac aaggcttaag aatgggtgtca 360
 ggaagttag atggcctctg gtaatcgatt accaaggggt gtaatcgatt ac 412

<210> 4468
 <211> 302
 <212> DNA
 <213> Glycine max

<400> 4468

agcttctcga tatattatgc gcttgaatct gactttctgt ttcagaagtt atgaccatat 60
 gaatttctcc actgtattcc gtgtgacaag atatgaccat ttgaatttct cgatagcatt 120
 cgttgttcaa tttcgagcgt ctcgatatat tatgcgcctg aatcggactt ccgtgtgaca 180
 agctatgacc atttgaattt ggcgagagca tgcggtgata gatttcgagc ggctcgatat 240
 attatgcgcc tgaatcagac attcgtgtga caagttatgc gcatttgaat ttctcgagag 300
 ca 302

<210> 4469
 <211> 257
 <212> DNA
 <213> Glycine max

<400> 4469

tctcgatata ttatgcgcct gattcagagt ttcgtgtgaa aagttatgac tcttgggaatt 60
 tctcgagagc ttccgatgtt ctatttcgag cgtctcgata tattatgcac ctgaatcgga 120
 cttccttgtg acatgttatg accatttttag gtactcccga gattctggtg ttcaatttca 180
 cacttctcga tatattatgc ggctgaatca gacttccgtc tgaagagtta tgaccatttg 240
 aatttatcgg gagcttt 257

<210> 4470
 <211> 199
 <212> DNA
 <213> Glycine max

<400> 4470

agcttgagat gaggaagtgt tgaaggggtga aacttctctgc ttttattcgc tgaccacaga 60
gtggtacctg gagatatgtc gcgggggtca agaaaccttg gggacgtcag gtgggggtgct 120
attgccccaa accaagcttg accaatcccc acccaacccg ggcataatcg ctcaatgaga 180
acctgtgatg tacctaaac 199

<210> 4471

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4471

tgctgtccg atgcagcagt aatgatggcc tgagttatgt tggggaacgg ttacgaactc 60
ggaatggggt taggcaaaga caaaggcggc ataactagcc tgataaatgc caaaggaaat 120
cgtgggaagt atgggttagg ctataagccc actaaggcag atgtaaagag aagcatcgcg 180
ggaaggaaga gcggtagtca aagctcgcg ttgagacaag aaggtgaagg aagcccgccc 240
tgccacataa gtagaagctt tataagcgcg ggtctggggg acgaagggtca agtggtcgca 300
atatacaaag atgatgttcc gagtacattg gatttggtag gaccatgcnc tcttgatttc 360
cagctgggaa aatggcgagt ggaggaacgc tccgacattt acgcaacgag cataatgtan 420
accttta 427

<210> 4472

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4472

agcttctttc ggaccttgaa caagcaattt actcctcttt cagaacccatg ctatgtgctc 60
gcgactggtc cctttcttcc cttcgcaact tgagttcact attgctaccc catagagctc 120
cgcgaaattt gttccggcca tactcttctc tgcgagccct cttgggtctct tgatcaaggg 180
ctcttgcggt aattgcattc tcttcccgtc acccggcaca ctccttccga acgtgtgtag 240
cagccaactt gaacttctcc ttggcgagtt ttgcctttcc taacttgctt ttgagagctt 300

ggacttcttc gtcctcttcc ggtgcttcan aattctcttc gctgacgaac tttaacttgg 360
cgagccaatc tatacctcgt atgcgaactt tcagccattc gt 402

<210> 4473
<211> 347
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4473

tgtgcaaadc aaatcactcc tacatttcat ctctagcatg cattntttct ttaccactc 60
ctcacgtttg gttttttaag gaaaaacacc ataactaaac gcgccacaag gcattcctat 120
cgcaccagat ccaaatactaa aatgatgggt gatcaagagg agacacagga acagatgaaa 180
gccgacatgt cggctctgaa agaacaaatg gcctccatga tggaggccat gtttaagtatg 240
aagcagctca tagagaagaa cgcgaccacc gctgccgctg tcagttcggc tgccgaagca 300
gacccgactc tcttggcaac tgcgcaccat nctccctcaa acatagt 347

<210> 4474
<211> 404
<212> DNA
<213> Glycine max

<400> 4474

agctatataa ttggataata tgtctcacca aaaagtacta agagacatca tattccccaa 60
tacaaataaa tataacagaa ataaaccata ataataaagc ctcacaaaaa gaaatactat 120
gagaaacat cattgtaaat aaagatttaa gccatttctt tttgttcttg ctcaccatca 180
ttgaaaaaca caacttctaa ctctggttca tcaagagata actgagcaac ctcaagagtt 240
ccattgtcat caagtggacc aaattcatct tctgcaatgt cccacatttt agttttccct 300
tgattgtatt gtggggaatt tctataaagg aggtgaagat tactatgaac acaacttcta 360
actctgtgtc atcaagagat aactgagcaa ccttaagaat tcca 404

<210> 4475
<211> 405
<212> DNA
<213> Glycine max

<400> 4480

agcttgaagg tgtgtaaccc accattgtcc atagtagaat actggtaatg tgtctactat 60
cattgtcatc atttttcgtc attgaggtgc cacttgagct gccaaagttct ccatttttgg 120
gcgtattctt tgaagatcc atgccccctt tttttgcaca tgaattgtag ttgcatccta 180
tctgaagcca ttataccaac actgcctaac gaaggcaacc attatgtcct cccaggaatg 240
gactegggaa ggttccaagt tagtgtacca ggtaacaact accccagtaa gactttcttg 300
gaaggaatgt atcaaacaat tctcatcttt tatgtatgcc cccatcttcc gacaatacat 360
ctttgatgg ttct 374

<210> 4481

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4481

tcttagtctc agctgatgaa gatgaattcg tggctacttc atgcactcct ctaatgaaaa 60
taacatcatt tctggcacta aattgctggg agtttgaagc catcttctta attaaatttc 120
tggcttcagc aggggtcatg tctccaatgg ctccaccact ggcagcatca atcatacata 180
gttttttaaa atctctccta gtattcatat aggtcttttc cactgagttg cctaattgcat 240
gaaatatect ttctgatggc cgtggctctg gaagcaggga aatttttttt ctaagaatac 300
tctcttgagg tcatcccagc tctgatgaa ccgaggagca tggtaataaa gccagtcctt 360
tgccactccc tctaaagaat gangaaaggc ctccagaaat atgtgat 407

<210> 4482

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4482

agcttgaggg ttctcttaac tcaatttatg caagtctcca tctcaaatca caaaagcacc 60
gaatcgacaa ttaaaaaatct tgaagtgcaa gtaggccaac ttgcaaaaga acttaggaga 120
agtctaattg gaatttatgg ctaccatgga gcctaaccct taggagcatt gtaaagcagt 180

gctcataagg agcatgcatg aagagggcct agctcatgat gttgttaagg gtgtagttga 240
 ggatgatagt aatgatgagg aagagaaaaa tatagagaga gagagagaga gagagagaga 300
 gctgtgtgtg gaaaatgcag acnaaatgat gaaaataata acaattgtct taaggagggt 360
 gggatttcat gaggtcttaa ttcaaaaacc aagagtcatg 400

<210> 4483
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 4483

gttttagttt cagatgatgc ttatgggttt gtagctacct catgcactcc tctaatact 60
 atggcatgat ttctggcgct aaactgctag gagttggagg ccatcttctc aattaaattt 120
 ctagcttcag caggagtcac gtctccaagg gctccaccac tggcagcatc tatcatactt 180
 ctctccatat tactgagtcc ttcataaaaa tattggagaa gaagctgttc tgatatctga 240
 tgggtgggagc aactggcaca tagtttctta tatctctcct agtactcata caggctctct 300
 ccactgagtt gtctaatacc tgagatatcc tttctgatgg ctgtggctct cgaagcaggg 360
 aaaaaattt 369

<210> 4484
 <211> 136
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4484

agcttgctcag ctatgtggag cccactccta gtggctatta gatgactcta taaggcattt 60
 gcgaaggcta tgaagcacia gccgaagcat tccanattgg taattcctcg cgctcgatcc 120
 cttacngaga aaccta 136

<210> 4485
 <211> 243
 <212> DNA
 <213> Glycine max

<400> 4485

tataagatac tcaagcttag cgaatcagcc tcgcttagcc acaagtatct caatagtgag 60
gatgagtgtt cattctccca ggatgaactt gcttagcgcg gtaggcacac ttaatgagtt 120
cttttgaaaa cgcataatatt caatgaattt tttatgaact cgcttagcgc agaatgccgg 180
ttagcgagtt catcgcgctt tccaaaaaaa aacacgatct acacactccc ctttcttcca 240
ttt 243

<210> 4486
<211> 114
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4486

agctttgagc aaattcaaac gacaataaat tcttactcgg atgtctgatt gagncccgta 60
atatatcgag acgctcgaaa tggactactg aagatctgag caaattcaac cgac 114

<210> 4487
<211> 152
<212> DNA
<213> Glycine max

<400> 4487

agcttataag aacaacattg ccttaattat ttccaaatat gcatgtgaat taggacgcat 60
caacaagaat caagccaagg ctattgtgca accaatcaat ggggcaaaac acaccaaatg 120
attataatga tggatggctc aaaatctcac aa 152

<210> 4488
<211> 84
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4488

tgaagggtga tagcccactc atcttttcat agtagaanat cgттаатgtg gctactataa 60
ttatcattgt ttctccgcca ttga 84

<210> 4489
<211> 81
<212> DNA

<213> Glycine max

<400> 4489

agctttaaaa tttgaattaa aacattcatc atattactgg taatcgatta ccatatatgc 60

gtattcgact acacagcgca c 81

<210> 4490

<211> 303

<212> DNA

<213> Glycine max

<400> 4490

tggttaaagct ttatatggat taaaacaagc tccaagagtt tgggtataaaa tgacgcgctc 60

attcgtcttg aatgctaaca ctctcttaac tgttgcgaa agtgcacctt cccaaagcga 120

atcttagaac gatgggttaat tcttaagaat cagcgaaatc taaggcagct aaaaaacccc 180

aggggaaagc agcaacaaat ggtggtctta tgccatcatt ttggaatgat gttgcttatg 240

ctttaaaggc tatggggccc cttggaagtg cgttgaggtt ggtggataat gaaaaaaaaac 300

cca 303

<210> 4491

<211> 320

<212> DNA

<213> Glycine max

<400> 4491

ggggtgaacc tagctcatgc ttttatacaa acgggtcatca agtcaagtct caatatggaa 60

ggaaccgtct tagcaaattg gggccaaaga tgaatcgagt cacatcactg cttcgtctac 120

tggcaagcat atttaggatt attgatgtcc ttgttacatc caatttcacc ttgacaaaaa 180

tgcatggac catgttgaaa atctaaattg attccacccc atatcctgcg taaaaattcc 240

cacatacttt cactgtgcat cattcgcata catccatgct tttcattggt tgcattgctc 300

attgcattct ctcttgaaa 320

<210> 4492

<211> 304

<212> DNA

<213> Glycine max

<400> 4492

catggtagat atgtaaaatt ctaaaactaa acttttttagt tggatctata caattcacct 60
agcagttgta aaaagtccag ggggctgaaa aaggatgatt atataatgca caatattgaa 120
aatattgttg tatgattgtg ctaatcctaa ttgtattgag aatattgcta catgattgcg 180
ctgatcttaa ttgattctat ttgcattaat tctgattgta tgtattaatt cttattgtat 240
tttaatttta ttttgtatct tgatctcttg attattggga tcacttattt ttaggataga 300
tagt 304

<210> 4493

<211> 363

<212> DNA

<213> Glycine max

<400> 4493

tccatcaagt tgaatccttg tttgttcgga ttcccatat aattcacttc ctatgcagca 60
tcatcaaggg gtatacaaca actagattca tatgctcttc cacatatact acaacctcca 120
acctgtatta ctactgaatg ggaagggtga actacttgca gttgggttgg cagcttacta 180
agtgtctctg tcaatgattc cagttgttta gctaacaact tgttcagtgc caacagtgc 240
tcttgtgaag aaatctctag taggcttctc tttgtgggta catgagttct atcacacaga 300
atagcatgat cactattagc catattctca ataagttcca tttcttcttc aggagtcttt 360
aat 363

<210> 4494

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4494

ntgaaccccn tgaannnctt tgatccctga tagagccggg atgcttacag tccacctgca 60
ggtaccactc tggatatttc gaccgtcaac gagatttatt tgtgagtatg acacaccatg 120
tgagcgcgga agatgacgcc tatctccgcg tgtcaacggg cttgtcggcc acggttgacc 180
aaaggcgcac aacacgacct tagtcttttg cggctgtctt gcttttcgtc tacagacagc 240
acaaaagacc gtctatacgg attaccactt gggctctttc cgacgtcagc gggactcaaa 300

tgtgaggctg acagaccttg cgaacgcgga agacgactaa atatgcgcgc tgcaccggct 360
 tgcggacggg gtgaaaaggg ccctaaaaac gcgataatc cttgcgcgat ttggctttcc 420
 gcttccaaca gcaaatacag gggctctcgg cc 452

<210> 4495
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 4495

ggagctgcct cggtaaaaat gcttcccagc gctctttaac cggtggatct tctcgaaatt 60
 aggtttacaa cgtcaaaaga cacttgcca tgatctgacc gttgcgatct gtgagaagat 120
 gtctggagtg tgctagaagc ttccgttctt gagagcatct cttatttaag catttcagcc 180
 tttgctttcg tgtagcttag gaaaaatgtc atttcttctt ctttctttct tccaaagcca 240
 tttctaaagt tccaagaact ttctccatca cccacatgca ccattagcca ccacaaacta 300
 tcattgttct ccattgtaaa cccacaccga gaggaaccct tcaaccgaag cggaat 356

<210> 4496
 <211> 332
 <212> DNA
 <213> Glycine max

<400> 4496

agcttggggg agccttgatg ctctcatagg gaggcttagg gctgcttatg aggaaaatgg 60
 tgggtcccca gagactaacc cttttgcaag tggctccatc aaggtgtatc tcaaaaaggt 120
 tagggagtgc caagccaagg caagaggtat cccttacaag aagaaaaaga aggcctcaaa 180
 tcaaagcaag ggaaatgatg aatcatcctc caccatgcac ttctcttgaa caacatcttc 240
 agtatgatc cctttggacc tttcaagtca tggtaattaa ttaattaact aatcttgctt 300
 gccatcacac tcatgatcat aaactatgct ta 332

<210> 4497
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 4497

tgatttattg tgttatgtac agaggatgaa gaagccaatg gaagagggta tgcaatatat 60
agagaaattg taggcaagtt gcatcagaca cagcaaggta gtgatggaga tatatattga 120
aaagagagaa atgcgagaga aaaaaattgt accaactttc aaacatgctg ctccgatcca 180
tacgtgcttt ttacttttta aagtttttgg gagctacttt ggaagaaacc tttgagataa 240
aagatgagat gggtcaccga gaagttgaca cttatcacta aatatatgga ttaactcacc 300
taanattatt ttaacttgag tttgaatctt aaacatataa ttatattaaa tatttaataa 360
aaaaatttat catttataa 379

<210> 4498

<211> 342

<212> DNA

<213> Glycine max

<400> 4498

agcttgtagg attatgggtg acccatcaca tgtggtacta ggtggtggtc gggcgatggg 60
gcacaacaag ttttccacat tcacaaagcg cgcataaacc caccatcccc tgttgcccac 120
cttcaactga gctcacgtac tcccacgtag cccatatact cgtttctctc aacaccgggt 180
cccatcaat cctcccaagc ttccccaaca tcaaagtaat acaacattca aacaacacaa 240
gctatcacag ccaagcaaaa cagggcaaag gcagaaaact ctgccccaaa caccaaccaa 300
aatcacagct tttcacatac aaatacccca gaaacatttc ct 342

<210> 4499

<211> 280

<212> DNA

<213> Glycine max

<400> 4499

tatactaacc ggaacatact ttaccattag aactgccaat acctactggg gttcgctatt 60
ggaaggaatt gatttagctc aatttttctc tattcatatg caccataact ccataagcat 120
tctctttctt ttcagtccta ttcattatct tttacacatt tgtgagtagg tgggtggatt 180
ttgctcgatg ggggtggagtc caaaagataa aagattgaac attatTTTTT gccatacttg 240
aaaccttaaa ctaattctcc attggtatta gaatttgaca 280

cccatgacaa aatacatgaa aatacaaaga anagtccta ctacaaagac tactcaaaat 240
 gcctcgaaat acaaggctaa aacctatac tactggaatg gccaaaatac aaggcctaaa 300
 cgaaggagaa atacctattc taatatttac aaagaatagc gggctcatac ttag 354

<210> 4503
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4503

gtaaccccc ttntaaatga taggcttaga atgcagatta agacgaagaa gaagaagaag 60
 aagaagaaga agacgaagaa gcaatcaatt taacaatggt cttttaaatg cgtaagatca 120
 aattgattgc gataaaataa atgagataag ggaagagaga aatgcaaact caattttatac 180
 tgggtcggcc acttctcgtg cctacgtcca gtctcaatc aactcacttg atattttcac 240
 taacttcgta aaaaaacctt tttaacaact ctgaacaccc aaggaatccc tttcccttgt 300
 gttcangaaa ctcaaatc aagagacaac cagtctcttg attacaactt actttctgag 360
 atgaatataa agatttctct ccttttagagt ggataatata acttgatggt ct 412

<210> 4504
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4504

agcttccctt acaacanaga gaagagaata atgaaggatt gaagaaatac aagtagtggg 60
 gatgtctnct ccacctctag aacctcacia tcaactcacag actcatctca tgctctcagg 120
 atggcttccct cttctcactc tgttctctac cagtcttctc acagcaaaaag ctttgaaaac 180
 tctctggaac ttggacctt ctctctntag aagtctctaa acatgcaaaa gctttgataa 240
 tttcccaaac tccctccaa aatctgattt caggcttaaa taggtggctt tgtttggtct 300
 agcacgctta gtgcaactat ggaccgtca gcgtgcatta gtggatttcg gcttaacgcg 360
 tgcgtttctc acttagtgga tgga 384

<210> 4505

<211> 360
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4505

 tgaatntggt ttagacatga ttgatacatg atttgtgact tgtatgaatt gatttgngca 60
 agaatggatg agaggaaggt gtgatttcga aatctgcact tatgcagaaa ttttgctgtg 120
 aaattgtgca gcagaatddd gcacaagtgc agaaaaatgc ttgtgtgtgg ttggctgtgg 180
 aaagtctagt gcagaatgag ttcttgatgt tngctagtag atcccaacgg tcataatgta 240
 ggcttatgta ctagagactt ccagtaaaaa tttggagtcg atccaacggg taacgaattg 300
 gatcgaagga atngttactg gggctctttaa gtgagaaaag ctgtgatntt ggttgatgtg 360

<210> 4506
 <211> 336
 <212> DNA
 <213> Glycine max

 <400> 4506

 agcttgtgcg aatctttccc ttttgttcta atgatctcca tggttaagat agaattcatt 60
 aatcaaggca aggttgtttg gttttgtctt tatcggttac ccaaattgtc gtcgagcgag 120
 aagcgggttg tagctaattc cgccacgcat acccaaaaga ggtacgttgg gatattcacc 180
 acaactcaca ataatctctc caacatcact agctgcttgg taccaaaca tgtcagatgg 240
 gtcaagagtc atgattcggc gagggcaaga aagcttatca tcattggtct tgaaggcacg 300
 ggattgaggt aagtggaagg taaaccactg atagag 336

<210> 4507
 <211> 371
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4507

 taataaaaaa agcattttcca aatattccaa atcatcatta gctatatttg atgtgcctaa 60
 catcagtgac gtagtcgata aatttgcttc tattacgact tagttaataa tagggaagat 120
 agaaataaga agcaatcaca ctctctatgg cttctattan gagtgaaaga aagagcattt 180

acccaacaat atctctactc ttatgccaca tttcatttag gaatctgggt gcttcttttt 240
 tgttacaact attgatgata atatntctgg atgagacaag catctcagta gggtttataaa 300
 acatgggtca gacagacctc agccagtaaa ccagggttaa cgcttcta at agactagaga 360
 ttataacaga c 371

<210> 4508
 <211> 383
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4508

agcttttgtc actccaccta tatttgggtc tcacattaac caaacttaac accgctaaca 60
 acaatgccaa tgacttcttg caccocggat acaaaggctt cttcaaatca ttttccaatg 120
 tatcatacat aagagcatgt gcttattgaa aagattctct tgtccaagat cacaaatcat 180
 gtcttcta at cgatctccca tttctacatt aatcggttca atttcggacc ctctcaacat 240
 gtctgtcaat tcacatgcc atatccatgt cgtataattt ttcttaaatcc caccatacaa 300
 aaaatgtca ttcacatgc ctaatacttg tcaatctcca ttcaaacagn ttataacaaga 360
 acaaaaattt tttcatctc atc 383

<210> 4509
 <211> 338
 <212> DNA
 <213> Glycine max
 <400> 4509

tgaaagggtca aaataagact catagtgtca ttggatgatg agaaaaactt taagctatga 60
 gaagtaatta gcaactaaag gacacgaaaa atgttgcagg cctgaagaat tgcataatga 120
 acatgacatg aagaacaaca ttgctgcaac aactcaact tttatgaaca ccgtcggggc 180
 tgaaacaacc taaatcatgg acaaaattaa gcttgaagct gcaaatgcta atagtcctag 240
 atagctta at atgtgtgtag taatttgaag actacttgag ccacataagg gaattgagat 300
 gatctcactg gttggggaaa gttaaaagaa tatataca 338

<210> 4510
 <211> 286

<212> DNA
 <213> Glycine max

<400> 4510

agcttatcat ccttttttag tgaccatta tagtcttaag tttacttcaa ttgttggtct 60
 ttacagaaat tttcatttgt gcatgacta aaacaaactc atcaattagc atggtgctaa 120
 tgggctcatg actcctgctc agaatgcctt tcataattaa aacacctata attcagcact 180
 caacagttct ttaattctga cacactcata atgatgctta caaggcttag agagcaccta 240
 ccaatattga gaacttgga taatttttga agcccattaa tatgat 286

<210> 4511
 <211> 261
 <212> DNA
 <213> Glycine max

<400> 4511

ctcagcttgt ggtagaatgg tagcatagtc agtcaaatta taagtttggt ttgaagttca 60
 taccataagg cctgtcaaag ggaagctctt agttgacctc attgtcgaat tccctcctag 120
 tgaaagcaac aacgaagggt ggggattttt tacgtagatg aagcttcaaa caacaaaagt 180
 agtgatgttg gagttacttt ggaaagaaca aatgacatct caacaaaaca gtcatttgaa 240
 gggttgattgg aaagattcaa a 261

<210> 4512
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4512

cacctgcggc atgctgcttg gcaaggcata agcatatgat cctaagtggg taaaggcgca 60
 cgatctatgt gccgaanagg gtttaaaact acagggtggg ttaggctatt ttaattatat 120
 gctatcttgc tattttgaat tttcttcgaa ttggtatttt tgttttgata tttgaaatag 180
 ctcatctttg aagagtata tgtacaaacc ccaatttgct gggtttgtag atgtggattt 240
 ggccgcagat aagaacattt ttcttaagag tttggatgtt gaaaattcaa ttcatttggt 300
 gcttatatat agccattatg agctcgaana tacta 335

<210> 4513
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4513

tgtgagcaag ctntcttggc cttcatgaag actattgcca tgccgccagt cctaagtcga 60
 ctcaagccag gagtaccttc acttctatac ctctcagtgg ctgacaaaagt tgtaagctta 120
 aaccttgtac aggaggacgg gaaacaccag ctteccatct attttaccag tcgtatcctt 180
 catgatgctg aaaagtggta ccagatgata gagaaggtag tgctggcact cataacctca 240
 gatcgacgcc tcaggttgta cttccaaagt caccaagtgg tagtcaagac aaactaccct 300
 gtcaaacagg tgttgtgaaa gcctgaactg gaggaatga tggattatg gtcctaagtc 360
 gacccaagct aggagtacct ttacttttat acctctcaat 400

<210> 4514
 <211> 239
 <212> DNA
 <213> Glycine max

<400> 4514

agcttatggg atccatgggg ctttccaaac cactaacttc ttatgcaaga aatagttaat 60
 ccattgggag ttacatcccg aaggatatga tcaaatagct aattgggtca ttctatctca 120
 gtaccaactc tattttgtta aatgggtttt tttttatgga taatcgattc tgggtgaattg 180
 ggaagagtta cttcatgtat aatgccttct atttcacaaa ctcattaaat aaaacatat 239

<210> 4515
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4515

ttttaccctg tttctgactt caattgtgaa atttctgaat gtatattttt cttgttttgc 60
 atccataaca ttgctgagct ccagtaatta gtatttggaa tattgctgag tctaattctt 120
 agggaggtag catccttatg tagagaaaaa taccttcttt ccaagttgag agaggataac 180

aaggaatnnt tctctctttt ttatggttca acttcaagcc atgtcattca ggatgttgat 240
 ttcttatttt tcttttctt tttctttttt cttttctttt atctataaag tagatgctct 300
 catttcacac agtncaacaa tttcttgtaa tntgttagtg gtgtagagaa taaattgcaa 360
 gtgcatgatg aatga 375

<210> 4516
 <211> 273
 <212> DNA
 <213> Glycine max

<400> 4516

catgccagct tgtaccgatc ccatatgggt ggattattct caaagacttg tcttctatg 60
 attttaccta atgagagtga cctaacttac caacgtgtga tctgctttat catgtactca 120
 tgggcacttg acgaagtttt tctaatacat ggtaccacat tgcataaag attgagtctt 180
 agtatatttg gtgcataacg cttgtgtatt gatcgatatt gattggttga gtgatgttgt 240
 gttttgatcc ttgagtacgt gaatgatggg aaa 273

<210> 4517
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4517

tgcaaccact gtgactcata ttcagtaaag gaactctgtt ggtatgtttt tactntcaga 60
 atcttcactg acagagcaaa acttaactac tgaagttgta gtcctaatt cccatgagag 120
 ttatagtaag actaatagtt ctgactcctt actcctaatt cctgaactct tccaatcttg 180
 agctttttat ggtgtaaaat tgtttaatgc tgtgctttgt gtttaatata tctagaactt 240
 tagatgattc ttagagtcaa taagagattg atctatgtta tatggaggag tgaagtatct 300
 attataaaat atgtaacatg aacaaaacta caaagttacc ctgtgcatgc catggacaac 360
 ggggccatga ccccccatag ccacatcagt cctttgagtt gcagaaatat ta 412

<210> 4518
 <211> 319
 <212> DNA
 <213> Glycine max

<400> 4518

agcttaatgt tttgtgatgg tggttagctt gtaaggggtc acttgatga gctcatgagc 60

catatgagtc atgtatgtaa agatcatttt acacgaggta gtaatctaatt cttggaatca 120

ccgttagttc acatttgtga tctaaagctt tcaaccattg aattaatttc acacaacaaa 180

ttcaacaaac ttgatcgaat aacacatcca tcatcttttc caatcatacg agacctttga 240

agaagaagaa ttttcaaaaa tcaaactctg attttgaatg caaacatgaa acgattatca 300

ccgaatggct ttgaacaca 319

<210> 4519

<211> 327

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4519

caagcttttaa actttgctaa ctaaataaat tgaaatataa aacttaaact aaaacattaa 60

ctgaacataa aatgtatcaa aagcagaaaa ataaatggta atcctgtcat ggctcttcct 120

gtgctgctgt gggctcatcc tgaggtaagg agggagcatc ctgngctggc tgagggatat 180

ccttagctgt aacaggccat ggatcccaaa gtgtttgcgc tactaccata tctgctacat 240

aatctatatc tgcagcgcca tactcctcat ctgagacctc tacccttggt gtagtaactg 300

aagaagtctg cgggggtggc tctggag 327

<210> 4520

<211> 205

<212> DNA

<213> Glycine max

<400> 4520

agcttttcag catatatcta gctcgaaata tttatctaca tgtatgacat tcaatccagt 60

cctatatgtc caaatgctga aacctgacac tactaatata taaactgttg cgtgtcactc 120

ttgttaggaa gaataaataa aataatgaaa cataacttct tcggaggcat gaagatgacg 180

ataacttcat gtcacaaaaa caatt 205

<210> 4521

<211> 365
 <212> DNA
 <213> Glycine max

<400> 4521

tgttagaagc cgtgatgtga aattcatgga agaccaattt attgaagaca ttgagaaggt 60
 ggaaaagtat acatctaagg aagacaatgg tgtggctgat tttgaaatag ttcaatcgcc 120
 tattcagaat ctgaatattg atgttttagaa tgatgttggt gtccaacaac ttggagatga 180
 ggtaaatgtt cctactgatg atgatgaaga ggagcatgac atgttacaag atgaaaatct 240
 tggtaatgct actgaaccac cttaagttca actcaggagg tccaacaggg agagataacc 300
 ttctaggagg tattctccta atgagtatgt gatcctaaca gatgatggag aacctgagta 360
 cttta 365

<210> 4522
 <211> 316
 <212> DNA
 <213> Glycine max

<400> 4522

gctacctgaa tgcccgcatc gagaattaat atgccaagag agatttttct gtctttgaag 60
 aaggatgtgc ggctctcatc aatgaggacc tgtataacat gcctcagcct atttgctaatt 120
 aacttagcga tcaccttggg catacaccca atcaaagaaa tgggggtgtg atcatcaaaa 180
 gactgatggt gattaactgt gggaagtaaa gccaaaagag aaacattact gcctataggg 240
 aatcttccat gcacaagaga atcatgtaca aatcttctgg agtcaattat taccactccc 300
 cacaattact taatga 316

<210> 4523
 <211> 196
 <212> DNA
 <213> Glycine max

<400> 4523

ccattcatgc tggccgaaca acaccaaccc ctccgaactg aagctagggg tttcaaacta 60
 gcgtatgaaa caacgaactc tcctcgtgc ttttcgattc ctttcaattt ttcatgtttc 120
 caactgaaca aaattaaggt ttaacttggt gtgtgtgatg aaaattgaga attggatgat 180

ggagagtgtg tatgga

196

<210> 4524
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4524

tgaaacccctt ggaagnccct tgaatacctt agagtccacc gtggatgctc tacagtctac 60
ctgcaagcat gcaatctgtg caactggaat gtacgaagat atccaagtaa tccgtgaatg 120
gaacattgga aagggtgcaaa gaaagatctg agatacttac aggggaacgaa agatcacatg 180
cttacatata aaaagtcaaa tcatattcac gtgattgagt attcacactc atactttggt 240
ggatgtgggg atataaaaaa aaacctctt ttctatgact ttcttttaac cgaaggagcc 300
atatcatgga agatttgcca ccaatgcggt gttgctgcat caccctggga gatgatcttg 360
tggccgtcaa agctacatgt aatggaaatg gtgagcacc tatgcatagc cttcattggc 420
ttcagacttt atgtgaatac cctaaacagg cgtggacc 458

<210> 4525
<211> 286
<212> DNA
<213> Glycine max

<400> 4525

agctcggaga ggatgcttca atggcggaaa agaaagaggg atttaaagag agaggggtga 60
gcactaaatt gaaggaagaa aaagggagag aagttgaact ttgagttgtg tctcacaaga 120
ctctcattca tcaaagttac aacaagtgtt acacatgctt ctatttatag actaggtagc 180
ttccttgaga agatttcttg agacaacttc cttgagaaag ctttttgaga aaactttcgt 240
gagaagctag agcttagcta cacacacccc tctcataact aagctc 286

<210> 4526
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4526

tcagcctgat tgctaagcga catcttatcc ttggcttagc gtgacccagt gtcgccaagc 60
gcaattcctt acagccataa ctgggggttca taaagctaag caccagtcac ggcagctaag 120
ctgaattcct tgcagcaatg tgagcgctaa gcgaggcctg atctgtagaa gcacagacta 180
tgagcttgat gctttcatga tgccatatga acatgcgttt cccaagttaa gatcaagaca 240
aaaatccaag agattcaaga tacatcatca agaagatctc tagtgattta cggagggaag 300
ttcaaaatga aacaacaaga gggttggcca agaanattaa gctaaaatgt ccttttcaag 360
agaattactc tctagtaatc gataccagag gatgtaatc 399

<210> 4527
<211> 305
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4527

agcttgtaag tgttatgctn tgatctgtgc gtgtatgctt ctaacatgtc ttcattgttt 60
cttttataag cagtatgctt tgccctttgt ctttctgctg actgggggtca tttctgatca 120
tgaaatgctt gatttgttgg acttggcttt atcaactgac acttcaaata caattgtgag 180
agcccaggaa ctgcgcagga caaggataga tcctttacaa cttatatcac aattggaaaa 240
tcttattata gacattcttg tangtcaatg tgaacttggg gatttttgaa atcaaacaag 300
atttt 305

<210> 4528
<211> 364
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4528

ttaatctagc ttgactagca ttcttagtca atggctattc taatcagtc tttcagctt 60
acttactctc taaaaaagggt taacacgtat tagactttta tatcgtataa ccgaggtaaa 120
agcatcgacg tttaaaataa tatcggtaac atcggtctct cagaaccgat gttaatatat 180
aaatacaaca tcggttattg aaataaccga tggttatataa taagaaatat aaaaaaagta 240
atatatcttc atatcaacat cgattgttat caaaattgat gttaatatat gcaaacaaca 300

tcatnttttt tggaaaaact gatgnttgat gtctatatta atatcgggtt aaaaccgatc 360
 ttac 364

<210> 4529
 <211> 247
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4529

agctttttga aaacaatttt tattatcatt aagtnttnga acatatgact ttgtgacatt 60
 gagagattga gcctaatact taaaaatagt tcanaagggtg aaatgaacga tagtantaat 120
 ggtgtatata gatccgtttt ggtatagacc aaatatcaaa atgatattat tttcttatat 180
 aaaattactt atatttcttt ctttaaaaaa tattgtttat tatcataaga ataaaattta 240
 ctaactt 247

<210> 4530
 <211> 353
 <212> DNA
 <213> Glycine max
 <400> 4530

agcttaccce ttcagtttta gggtttttat gatgatgctt gtgatgttta tgtgctgaaa 60
 ttgcttatgg aaaactgtta gagatgaagg gtagagttaa cctaggggta gaaagtgaga 120
 atatggtggt atgagtggaa aaagagtggag gttttgagag ttggaaggcc aaatctggat 180
 ttagtggtat ttggagggta aagtgagttat atcctagctt gaaatgtcat ttaggactta 240
 tgagaaagtt tgggttgtgc tagagagaaa aacaaatgac caaagtgaac aaagagccat 300
 ttctagggta aaattgggtg ttgaggagtc aaattttggt tcggtgaaat ttt 353

<210> 4531
 <211> 359
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4531

tgaaggcgtg taaccaccca tcttctcata gtagaacatc gataacatgt ctactatcat 60

tggtatcatc tccctctcca tcattggggg cgttacttga gctgccagat gccttcacct 120
 ttgggcatac tctttgaaag attcatgctc ctttttacac atgttctgta actgcattct 180
 atcangaacc atattaaaat tgtactgata ctacctaag aaggaaacca ttacgtcctt 240
 ccaagaatgg actcggaag gtttcagaat actatactag gtgacagctg cccagtaag 300
 actttctagt gtcataccct aattcgtctg gggatgatcg ttgcccacat ttgatcctt 359

<210> 4532
 <211> 318
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4532

ntccctctnt gaacaaatac ctctcagcca aatagaattc atcttgtgcc tttttccac 60
 aactcttgta aatgggagag aaatgttcat ctaaagcata caagtccta atgttatcaa 120
 atcctaaaat ttgagctcct atggagcaaa acaatgtgtg tctcctaaag agggcatcaa 180
 ctacaacatt ttgttttccc tttttgtatt tgataacata tnggaaatgc tctangtact 240
 ctacccattt tgcatgcctt ttgtttaact tgctttgcc tctaataaac taaatgattg 300
 atgatcacta tgaatgac 318

<210> 4533
 <211> 340
 <212> DNA
 <213> Glycine max

<400> 4533

agcttattga agtttgctaa aaaccgtgtt aggtttggtc tgggttacia ccatacaaag 60
 gctgacaaaa ggaggatttt tttggaaggg aaaaaataa gttaacccta ttaacaagg 120
 gggggccac aagtgaagag ggtcctaatt ggtcaaatca ccaaagctt aatcagtga 180
 ggatggatga ttgaagatca agttgctgtg ctagatgaag aaaccaatca agaccagccc 240
 aaatgggtgc aatcgtgttc cccaagcttt gaattgaaga aattgcaaat catggagcga 300
 ctcgagattt ttgtgtcaaa tccaatgtaa tcaagtagtt 340

<210> 4534
 <211> 342

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4534

 tcttagagat ccactttntc ttgctgttt tgtttttgaa aactctagca catgagtgtt 60
 cactatngaa aagttttgac ttgggaaaca ttttttcacc ttttgttcca agaacaaaaa 120
 atcttccact tacactcttg ttccttacac ttcgctctaa ccctttcacg atcattcttc 180
 tttcaaacan attcccttcc taggtgaatt gtgtagtctc taagcgcac cttaaacaag 240
 tcaagggttt caaattccat ccccaactct aggtgaactt gaccaaaggt tgaatttgga 300
 ttaaaaattg ggaaaacaac cttttcatca tcctcatcat ct 342

<210> 4535
 <211> 346
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4535

 atgatagcct ggagttaact tcaatgggtg ttcttggag aacttgatcat tttttatata 60
 ctaaagcang ctcatcaaga tgcataaact cagaaggcta aggattatgt tcagaaggtn 120
 ggcataatta aacaccaaga gtttggactc aacatgaatg acctctacnc tggtatgata 180
 aacacatgag ccatagggac ttctgatgta cctatgagac acaatgaact cattgaatct 240
 tttgtaccac tactttggtg atttcttcag ccataaaga gacctcttca atctacagaa 300
 caaaaatttc ctttctttca cttcaaacc cttacaatgt tgcatt 346

<210> 4536
 <211> 337
 <212> DNA
 <213> Glycine max

 <400> 4536

 tgtgaaccaa tttaaaaaat ctttgaata cagtatgaca cgtattaatt attaaacctc 60
 atccttaaaa ttaatatggg aggaccaaac ttattatatt caataggggc ttttaatgtt 120
 cttccattaa atggtaaaag ttcattttag taatttcttt aataaatggt tgcattcaat 180
 taccaaagat gaactcttat tatgattaga gaacaaaata aaaattccta tagaaatcct 240

tcacacaaca acttatgcc a ttcataagaca caaaagtota gatattgtgc tatctacatt 300
ctcacatgtc tctagcttgt cataatctct gaaacac 337

<210> 4537
<211> 156
<212> DNA
<213> Glycine max

<400> 4537

tggaagtcaa ccgataaaag aacaaagacc acaaagcaag gaggccttg tggtggctgg 60
ccaactatgg atcttgagtg atatttgga gatggcctct ggtaatcgat tacaaggat 120
gtgtaatcga ttacaaagct taaaaatggg gtcaag 156

<210> 4538
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4538

agctcataag aacaaaattg cctaaatcat ttccaaatat gtatgtgaat tangattcat 60
catcaagaat caagccaagg ctattgtgca agcaatcaat gtggcaaaac acaccaaatt 120
attatgatga tggatgactc aaattctcac aaacgtaaac ttatcacttt caaattgagc 180
tttcaaaact atcatgacat gtagaggaaa aacaaggatt tcaaatcaca aaatgtcaag 240
agactttatt ttcagaacaa ttaccatta cttgaacata tcctataatt caaagaaaaa 300
catgaaaatt taacacaaca aaactaaca aaattaaact agaaccacac aaaactaaca 360
caattaaact aatttaacac aactaacaaa accaaaacca aagaacacac tccctcctat 420
acttaa 426

<210> 4539
<211> 285
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4539

agcttgagtt ctacataagc cttccaattt ctactagcaa gntgttttca ccttatggag 60

aaatgcctga tttgaaagag aagcatgaac agcttaaact tttcaggata aatgtcaagt 120
 tgggtctcaa gatcaatggg aaggagttga gtaattactt gagcaacgag ggtgatgatt 180
 ggattccact tccacaggat tatctgcatg ctttggatgt agttcttagg gaaagtccaa 240
 ctgagaaatg catacctgta gggaggtcat tctattcaag ttcaa 285

<210> 4540
 <211> 408
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4540

gaaaaatcta gtctttgtgg gtgtcgtgga tctaatttgt ttttcttctt gtgttgaaaa 60
 tggagctntg caaattagag gaaaaatgaa ctttatggta atgcaaagga ctaaagcaag 120
 gaaagttgta catccttcta nggtccacta taacaggctc tatcttaact atttcacaag 180
 ctgggagcca tgcgtccaat gataatttgt tgtgacatct gtgtctagcc cacatgagtg 240
 aaaaaggact ggaaattatg agcaagcgag gcttacttgg aaatcacaat gtggaacctc 300
 tttagttttg tgagcactat gtctatatga agcaacatcg aaagaaattc ccaaaggggtt 360
 tgtagactac caaagtcaca ttggactatt gccattctta ttgttggg 408

<210> 4541
 <211> 94
 <212> DNA
 <213> Glycine max

 <400> 4541

catgcaagct tctaattacg agcgtctcga ttattacggg actcaaactt tcattccgaa 60
 tttatgttat tgacggttga atttgctcag agca 94

<210> 4542
 <211> 167
 <212> DNA
 <213> Glycine max

 <400> 4542

tcaagcttaa gaaaagtcaa cgataataac ttttggactc gttgtttcat tgagtctcgt 60

tatatatcga gacgctcgta attgaaaatg ggagctctaa gaaaaggtaa accgggataa 120
 cttttgactc agaatgtcga ttgtgttccg taggatatcg agacgct 167

<210> 4543
 <211> 198
 <212> DNA
 <213> Glycine max

<400> 4543
 agctctggcc aatctgatct atggaagcta taggcagcta attatttgaa ttgccgtttg 60
 ctggctctcc cttttactta cctgggaata cccttaggag caaaccgaa gagatgtaat 120
 ttgggggcac cctatatcca caaatgtgaa aaaaaggtag cgagggtggaa acataaacc 180
 atatcttttg gggggaga 198

<210> 4544
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4544
 agagtttttc tattgatcaa gaggggtttgt agcaatttgt gttttgtacc ctgtaactaa 60
 atggatttgg aagntgaaat ttaatgggac ttccaattat atctgatgaa agtagatctt 120
 tgcactttta ttcttggaaac tattaccggg attttggagc aacaccgggc taaataaagc 180
 ctgttgcttg gggaaaatta ctaatctttt ctttccccac acaccttttc attctccaag 240
 gtgcttctaa atatgtctcc agaactataa ttgagaattt aacagattaa atatggacgg 300
 cttgatgtac gcacaaagaa agcgttccag cttggggcca agaagtcaaa ccctctatgt 360
 aggaccatca caacttctca gctctttcat tgaacn 396

<210> 4545
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 4545
 gctcgaagac aagactatac gaggatcttc cttaggtata tttatatctc taagggttac 60
 cgtgtctaca acttgcaaac taagaaactc gtcacagtc gagatgttga agttgatgag 120

tacgcttctt ggaattggga tgaagaaaaa gtggagaaaa acgttcttat acccgctcaa 180
ctacctcaag aagaagatga ggaagaagac ctaggtgaac caccttcacc ttcaccacaa 240
caacaagatc aagaactatc atcaccagag tctactccaa gatgag 286

<210> 4546
<211> 369
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4546

tcttgactgt cactaagnga caacatggcc ggacattcta agaaacattt ctgatgggca 60
ttctggagaa ccatgctaact actcattggg atgcttactg aaaatgacac catgcttggt 120
gaatatacctt gctgaagctc atattgatat tttattctaa agccacacat cttcatcatt 180
cataacactt attcacaact cttaagcatt ctaaggctga ttactttaca atgacttaat 240
gaaagttcac tcattgacgt gtaatcgatt gtccatgcta gactcagcag nggtctcaat 300
cctgtggacc tatgcttctc atcggagctt ctcatggacc acgacttcat tctttaacaa 360
tctgtatc 369

<210> 4547
<211> 402
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4547

aggttgctta gtattaggaa gtattgtgna cttaatTTTT atggatcaac agatactccg 60
aggttagggg aacttgatg aaactgttat ccggtcggtg tatatcctat taagacttat 120
atacgtgata gatacatata tacatatata tgatactcta atgatgcaca cgtgaataac 180
cactaccacg atcaacatgt acatacgttt actcgtgcat ggatactctg acttattgaa 240
gggacttggt tgttgacaca agcaataacg atgcttccat tctgtacctt taaatTTTtac 300
gtgactTTTtg atgactatgg catatacatg aggacctgcc gacttgctta tctatataat 360
agatgcgctg agccccacat atagactaag gaaacgacga ag 402

<210> 4548
 <211> 326
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4548

agcttctgta ttcaattttg agcatctgta tatattacgg gtactcaatc ggatattcga 60
 gtaaaaatta attgtcatta gaatttgctc agaagattta ttttcaatgt cgagcatctc 120
 gatatattac gagactcaat cagacattcg agtaaaaagc tattgtcata agaattgcac 180
 agagcttctc tttttaattn tgagtgtctc gatatattac gggactcaat cagatatccg 240
 agttaatagt tattgccgtt tgcgtttgct acgagcttcc ggttcaatta ctagcggctc 300
 gatatattat ggcactcaat tggaca 326

<210> 4549
 <211> 333
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4549

tccgttgctc aattgcaagc gtctcgatat attatgcttc taaatcggac cttcgagtga 60
 caagttatga tcatttgaat ttctcgatag ctcccggttg ttaatttcga gcgtcttgat 120
 atnatacgcg ctggaatccg acctacaagt gaaaagttaa gaccatttga atttctcaag 180
 agcttccatt ggtcaattta acccgctcga tatttatgtg cctgaatcgg acctccgcgg 240
 taaatgttat gaccctttga atatctcgag agcttccatt gtcaattgcg accgtttcta 300
 ttgtgatgcg cctgaaatgg accaccgagt aaa 333

<210> 4550
 <211> 301
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4550

agcttgatgt gagaaagcgt ggaagagtta gtcttcttac tttngnnttg tgaccacaga 60
 gtggtacctg gagatatgtc gcgngggtca agagaccttg gngacgtcag gtgggggtgct 120

gcaataacta tgaggaggac cacaaggtga agtttgccgc cacggagttt ccgactatgc 300

tc 302

<210> 4556

<211> 311

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4556

agcttgctcc anaacacaat gtttgcttac ttgaatggaa ggagatcaag agnttttgaa 60

agtagaacca aaacataaga tcgcccagtg aggtaaaagc cgtcagctaa tgacattaaa 120

aaagcacttt ctgggaggca acccagnttt aatttctata atttttggtt tcatgcatta 180

aatcattggg aacttgctac ataatctgta cataggagta tatcagccta tctttgaatg 240

ttagatataa gggtttcaat ttggtgagga agggactgaa aaataactca aaaaatattt 300

tctaaaaaat c 311

<210> 4557

<211> 409

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4557

tcaagcttgt gcaaatcaaa tcaactcctac atttcatctc tagcatgcat tnntnnntct 60

ttacccactc ctacgtttg gttttntagg gaaaaacacc ataactaaac gcgccgcaag 120

ggatccctat cgcaccagat ccaaactctag aacgatgggt gatcaagagg agacgcatga 180

acagatgaaa gccgacatgt cggctctaaa agaacaaatg gcctccatga tggaggccat 240

gttaagtatg aagcagctca tagagaagaa cgcgccacc gccgccgctg tcagttctgc 300

tgccgaagca gaccgactc tcttggaac tacgcaccat cctccctcan acataatagg 360

acggggaagg gacacacntg ggcacgatgg cagccctcac ctgggatac 409

<210> 4558

<211> 297

<212> DNA

<213> Glycine max

<400> 4558

agcttctagc caaatgcact taccttgatt taattccttt gatagccctt ttgagccttg 60
gttccttttc cttggtttga agctcactac aagccttaag tgaaaaacca tgatatcatc 120
atataccttaa ggaattttgg agctttggaa ttgttttggg aataagtgtg ggggtttttg 180
tttcattgga taacatgttt tgggtggccat gcttcatgat atattttgag ccatacttga 240
tatacattgc atattgggta aatgttggac atgctaaata tgatgttgtt tctcaaa 297

<210> 4559

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4559

ntaatgtttc ttgccatca tcaatagctc caatcatatt aaaaactcag aatcatgact 60
gacaacaaaa ctttaatgaa taaacataat aaggaacgaa aagaatatga taaaaaatgc 120
aacctcaaat acaacaacag ttcagaattc ttcatgcaac atgtcatatg gaccagggaa 180
aaaaaaciaa ttcatttaac aatcaagtca cataaagaga taagaagaaa attaagaaat 240
gcagaattaa atcgtattat tgttgaaagc acaggagaca taaaggtagt aatgaatagt 300
tgtaccttgg aaatcgcata aactaatgca atgcgttgtt gatgattgga attnnttact 360
aagttattgt ggaatttgat tagtctggaa tatg 394

<210> 4560

<211> 349

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4560

agcttgactt tgcgagttga ttttagcctt attttcactt tagttattag tcaattcaat 60
taggaaagag aaattccaaa gagaaacgtc cgattgattn ttttggttta ttttactaaa 120
agataatttt tgattattat attattattt tacctctttt tgngttccaa cgtgggttacg 180
acatgaccga acggtcggat ttcattttta cagaaattaa cggatattac aaatcanatg 240
atcgggtggaa atttatatta tttttttatt agacgagaan atgacttang taaatgacta 300

aagcacgtcc aaagggggta caggaaagta atgaaatgag aataaaaagt

349

<210> 4561

<211> 333

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4561

atccgacagg atgaattaga ttctcattac tatgagatgt acaaaaatata aaggcactta 60

gaaccctggg ctgattatcc aagaatgctc taatgattat ttttttcttc ccaaatacct 120

atTTTTTTTT cttttctaag taatttcaaa agcaacactt tcgcttagca aaaattaggt 180

ctcactaaag aaaaagtcac cttgaggcga aaggagtttg aaggactcct cgctcaacaa 240

aaaagaaggg tcgttgagaa aaagcattga tacacgcana cttaattaag acatttctcat 300

tgagcaaagt gataattttg cttagcaaaa ctg 333

<210> 4562

<211> 140

<212> DNA

<213> Glycine max

<400> 4562

agcttcgatc tttatgacat atggaagttt catgtcggct agtatttggt tattgccgga 60

tgctgcctgt cccttttact tacataagaa cacccttgag aacaaaactg gaggagaact 120

cataaggggg accacacact 140

<210> 4563

<211> 167

<212> DNA

<213> Glycine max

<400> 4563

tgcacccgaa tcagacataa gtgtgaaaag tcatgactat ttgaatttct cgagagggttc 60

gcgtgttgaa agcttagcgt ctatacatag aattaccctg atctggacct gagagagaat 120

agttgtgaac atgagaaatg gacgagagct tccgagggttc ttttata 167

<210> 4564

<211> 381

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4564

 ctgactggag acatTTTTatg accaaanatg tttgtgcatg gcgaggcatc aacaatgaaa 60
 caagccaagg ctattgtgca cgccgtcaat gcggcataac acacctttcg actctgttta 120
 cggagaggtc taaatTTTTct tactgtcatc tttctaaaag atttggccaa accttctctt 180
 caaaaagaag tctttgtcaa aaactgtgga atcatctttt taatctctgc tcctttgcta 240
 aaaaacaaag actaacggcc tgatcctttg tgctctcttc tccttacaaa aagccaaaga 300
 ctaccgcctg gaattcttgg gtctccctcc cttaacaaag attctaagac aacccctga 360
 aatTTTTgtt ctttacaaga t 381

<210> 4565
 <211> 303
 <212> DNA
 <213> Glycine max

 <400> 4565

 agcttgcata tataaattaa ttaaggataa tccatgcatg atgcctaaac tggcatagca 60
 agaagggtc tcttcacttt tatgtagcag ccattgtaat caatattgat cctcatcacc 120
 atgcagaagt actgcaaacc aaagaaaaca aaaaggattc aaatggtatc tatagaacta 180
 acttaattaa gaaaaccaa agatggtgat tagagcttgc cttcaatgtc atgaaaacca 240
 tccaagagag agagaaagta acaggaattt gaaaatcaa aatagtatga gtgagctagc 300
 aaa 303

<210> 4566
 <211> 361
 <212> DNA
 <213> Glycine max

 <400> 4566

 aagctggaat catttatTTT atctccgata gtctatgggt tatgtccgtc caggtagtgc 60
 cgaagaatac tggcctcaca gtgatcataa atgagaagga ggagtttatt cctactcagg 120
 tgcagaacag ttggagagtc tgcattgact attggaggct gaaccaggct accaaatagg 180

accattttctc cctgccattc attgaccaga tgcttgaacg cctggcaggt taatcccact 240
 actgtgtcct gatgagtttc tggatatgc aattactatt gctctgagat cacgaaagac 300
 cacttacctg cccataggac tttgctataa gagatgcctt ctgctggcat gccctgtcc 360
 t 361

<210> 4567
 <211> 317
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4567

ggcccgggat ccttaagcac ctgcagctgc agctgatttt tttagtagga attatccttc 60
 ctaagatgga gccaaaccca gtcaccatca ttaagaacta tctcttttct tctctatag 120
 cctttagntg aatacacctt tgtttggatc tctatttggg tcttaaccct ttcattgcaac 180
 ttctttacaa actctaacct agattcccct tctttatgta taaaagaagt gtccagtgtg 240
 aggggaatga ggtctaacgg tgttagggga ttgaactcat agacaacctc aaaaggggac 300
 tgcttggggg ttctatg 317

<210> 4568
 <211> 356
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4568

tcgaatgggc atcgtttcat cttatttgcc aatgatattt ttaccaaagg gtggaaaccg 60
 gcctcatatg ctaacctgac taagaatgtg gtgggttagaa ttcattcagaa ggagataatt 120
 tgcagatatg ggttacccaa aaagataatc accaataatg ccaccaattt gaacaacaaa 180
 atgatgaacg agatgtgtga gggattcaag aaccaacacc ataattcgac gccttatcgg 240
 cccaagatga atggggcagt tgaggcttgc caataaaata tcaagaagat tattcagaag 300
 atgacaatgt catacanaga atggcatgaa atgctaccgg tcgcattaca tgggta 356

<210> 4569
 <211> 387
 <212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <400> 4569

agctntntgt tgtttttgaa aaattttatc cagacttcgg ataaacttta atttatggct 60
 aattcaagac caactttttg atatatttct tgctaggact atccctaata ctagggataa 120
 ttagtaggac caaataaatg gaggttgctg aattatacca catgatttca gcaacaacaa 180
 aagttgcaat aaagacaaca atgatatttt ttttattgca ataaagacaa caatgatatt 240
 tatggacatt atcaatgttt cccatgtgta atcctttata taaaccttga gctgggcaca 300
 cagtaagatg aaagagaccc cgntaatata ttatctaaca ttctgcaatg atgataaact 360
 atttctcttc ttcttcaaaa aaaaaaa 387

<210> 4570
 <211> 366
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4570

tgaaggtgcg tagcccacca ttttccttag gagaaacttg gtaatgtgtc tactatcaat 60
 gcaatcgntt ttttcgtcat tgaggtggca cttgggcctg cacggtcctc acctttgggc 120
 gtattctttt gaagaatcgg ggcccccttt ttgcacaaaa tttggaggtg catcctatcc 180
 caagccatta taccgacact gcctaacgaa ggcaccatta ggtcctccca gaatagactc 240
 gggaaggtcc aattagtgtg tcnngtaaca ctacccaga agactttctt ggaagaatga 300
 tcaacaattc tatcttttgc gatgccccat cttcgacata catcttagat gctcttgggc 360
 aagtac 366

<210> 4571
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4571

atgacnaccg tgctcggacc cgcggancnn taatttgatc ctttganngc cagcnnngan 60
 gatagaggcc tcaccgctgt ataagacaaa gtatgtctct aacgaggcta tatttgatca 120

tcacgcctct acacactgcc aaaaacacct cgggccgacg atgaggggtga gaatgaaggt 180
 agacttccat gctgacgttg ccatttctat acagtcattgt ttcccaccaa cccaacaatg 240
 tctttactct gcctataaca aacctgttcc ttaccctccg cctaattatt taaaaagggg 300
 atccctatat caaccacaaa atatgtctac cctacttgca atgacgaata cccactctat 360
 accttcctaa aacaccacca acaaatgaat tctgctcaac aaagccttat aaatatccca 420
 tcacgagcgt cccatgctac ttgctcccta tcaactagaaa ct 462

<210> 4572
 <211> 188
 <212> DNA
 <213> Glycine max

<400> 4572

tgtgcaaattc aaatcactcc tacatctcat ctctagcatg cattttcttt ctttaccac 60
 tcttcacgtt tggtttttta gggaaaacac cataactaaa cgcgccgcaa gggatcccta 120
 tcgcaccaga tccaaatcta taacgatggg tgatccagag gagacacacg aacagatgaa 180
 agccgaca 188

<210> 4573
 <211> 327
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4573

agcttattta ttcagttgaa gttgcacata tctttatgat tattgagatg ataggtaaaa 60
 tgggaaccca gctttggcca accatttggg ccagccttaa ccataacttt ccttgatggg 120
 ccctaaaaat ggattaaaaa gtggaaggct ctaattataa acctttaaaa tataaaaaat 180
 aaattaaaaa aatctcaaat aatttagtaa tgtaagatta atcanaatat agtcgtggaa 240
 aagtatatgt tcttacaatc ttttagcgat ggatatattt atattaactt aattgaactn 300
 atcttttata tttatatcga tatcaaa 327

<210> 4574
 <211> 338
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4574

ntgatgttat ttttttatgc atcgctntga tttntgttt taatgttngt gctagtccaa 60
atTTTTTTTT aataattttc ttttaataaa actcatttca tgatattttg caaagtgatg 120
catatcaagc tattggctac taaaattttct tacctcaatg attattcaag tcaatagtga 180
aatagcaatg ggtgcaacca tttccccaat tctgcatacc gaaactccca gttcaatatt 240
agtgtactta tctggaagga taatcccaag aatcttctta gtgattaatc tgcaaatgga 300
aaccagcctt taagcatctg ggggtctcatc tcattatt 338

<210> 4575

<211> 351

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4575

ggaggggttat tccacccgct cttatggatg accacagagt gtgacctgaa gatttttgac 60
tgggctatcc attattgggg aaccacgaga gctgctatgg acaaaatgca cggtagacat 120
ttccgacca tcacggggta gacggggcca cgcaacctgg gatgggccta aacggaccag 180
cttctggcac gtaacagagg ttaggaacaa gaaccacttg gctgggaagc gtcgcgggga 240
tggtcatctt agaatttttg gcggaatgag gactatatgc tatggttcat catcacaagc 300
ctaatacatg aagactaacg cgttgccggg ctcttgcatg ngttaccaa n 351

<210> 4576

<211> 330

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4576

ttgcatgcaa gctntataca attaattaag atcaatggcc aatatacaat taattaatta 60
catatatact tatatagtgg gagaatagtg tctatcagag ttttaatttt ttgtactgtt 120
ttaattacaa agacttcatt tatttttttt taaaaaaaag ttgattcatg gattatttta 180
aaattcaaaa gtaaagtatt tccactcata ataccaagga ataatagtaa atgaaggaaa 240

tattttattct ctatttctat aattaacttt agaaaaaatt tattaattaa actagctata 300
cctgggttata ttgttttgac cccctttttt 330

<210> 4577
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4577

tgtgcggtga actaacctcc tttaacatgg aattgttgat caattgtgat ttgatacata 60
ttgatttaac taggaagggc agggaaaaata agggaaagat catatttgat gtggacatcc 120
ncacagatag tgttttcaga ttatagctta cacagaatgt tagcataaat atagttcaaa 180
tggctgaaat attttacttc ttagaattca ttcattatat tattactaat ttaaggatcc 240
tggtgacaaa tatgattggt ttaaattgaca tcaaaagtgg atgaatttga ggtgtaaacc 300
tatattgtat gtttgacttg aaattggtga gaacgacaag aggggtcatg tgataaatat 360
tggcttttca ctattgatag at 382

<210> 4578
<211> 345
<212> DNA
<213> Glycine max

<400> 4578

agcttttatg tgaaaggatg tgactcttca tatttgaatt tgaatttcaa cggtcaaagg 60
cactagtaat cgattaccaa aactttgtaa tcgattacaa ctttttgaaa ttaattggaa 120
cggtgtaa atcaatttgaa aactttttca aaacaatttt gctactggta atcgattaca 180
acaatctgat aatcgattac cagagagtaa aaactctttg gtaaacatgt tttgagaaaa 240
atcatgtgca actcaatttt tgagaaaatt ttttcatatc ttatcttgat taagccttct 300
cttgattcat gaatcttgag tcttgaatct tgatgttgat tctct 345

<210> 4579
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4579

tttcgattca ttctatgtac ccgtagtggt ccacattgtg tttcgtgcat ttttattctc 60
gttttgttta ctttttatac ccnctgttga cgtgcttaag ccattttact taagtcattt 120
ctcgcttaac ttaaaaataa aataaatttc caccgaacgt ttgaattgta ttatccatta 180
acttcggtta aaataaattc cgaccgttcg gtcgtgccgt aaccacgttg gaaatcaaaa 240
agaggtaaaa aataatataa taatcaaaaa gacatctttt agtaaaataa agcggaaaat 300
caatcgggac gtttctcttt gggaattctc attcttaatc gaatngatta ataac 355

<210> 4580
<211> 335
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4580

agcttttaag tgcgggttta agacgcgtat gccaaagtc cgcgatatgc ggngatgact 60
ccccgaagag atcggatttg gtacggccat gtctctcccg tttctgacta ggaaattggc 120
gagtggagga acgcccagac gtttacgcga aaagcataat gtaacctttt gtagctntaa 180
aactctacgg ttgggcctag gctttagagt ttcctttttg ttaaagcatt atgtcttttg 240
tttttgaagt tataatataa agatctttct tcatttgntc ctgngcctct atccattctc 300
attcattttc atggttattt ctttactctt aaagc 335

<210> 4581
<211> 334
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4581

tcataatgaa tcaagaatga ttcanagagt tntgatgata acaaagatga tgacaaaaag 60
ttcaaaagtc aagaacactt atgataacaa agattatgat ctcaagaatc aaagaatgag 120
tttcagattg aatcaagtac acttcaagga tcaagaggaa agttgaattc aagttccaag 180
aatcaagatc aagattcaag aatcaagaga agactcaatt aagataagta ttaaaaagtt 240
ttttcaaaaa ctgagtagca catgaatttc aaaacctttt acccaaagag ttntactctc 300

tggtatcgat taccagtagc aaaatggttt caaa

334

<210> 4582
<211> 358
<212> DNA
<213> Glycine max

<400> 4582

agcttgcttc tacaatctcc ccctttctga tgataacagc cctgttatca agaagcacat 60

acacacagct tgtgctagac gatcactcac ttaactttgc atattctccc cctttgtttt 120

tgagtttatg cttgacttga aaataaggta aatacttatg tgagctcttg acgtaatccc 180

tatctctatc cccctttggc ataaaaaaaa gcagacaaag ggtgtaacag atattacaca 240

tatataaatt actaattatt cacaagacgt tcattgagaa atctaaacca atcatgaagc 300

tagaaacatg aataaatcag atatattaaa actacatagg cgtataacat aatgcata 358

<210> 4583
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 4583

nttggacncc cctagctatt ttgagacctt gaatactcag cttgtncatt gtagaccttg 60

ccctggataa tagccaaaaa atgttataat atgacccttt tccgaagtac tggcttttaa 120

cctttggagg gtattaataa gggtagaagt tgggggttct aatttatggg gtgagcttaa 180

tgagtcttaa gccactttt gcttttggac tgatttaata caatcatgag aaccatggat 240

gtatccgtct tcaaaaaaca cataaaacag aaatttgacc attaatacatt acccaccaaa 300

aactgatagt agaatcattc nattaatttg aaaagtggcg atattgcagt ctgcaaaaca 360

atagcatgac ttacagacaa agttgacaga tgatggttga cagacagcat agtt 414

<210> 4584
<211> 206
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 4584

agctntgatg atgtggtctt caccgatgaa aggatcaaag taggtctaaa aagaggcaaa 60
tctgatcatc atgctttgat acatgccaaa aaaaactagg gcaaatgaag agggtgagaa 120
tgaggagaaa gcccatgctg tggtgcat tcctatacag ccatgtttcc caccaacca 180
acaatgtcat tacttagcca ataaca 206

<210> 4585
<211> 82
<212> DNA
<213> Glycine max

<400> 4585

cggttcggg agacaaagg caagcgttct cgatatgca agatgatatt ccgagtactt 60
tggtttggt acgaccatgc tc 82

<210> 4586
<211> 285
<212> DNA
<213> Glycine max

<400> 4586

agcttgatc ccattgaatg cccattgtg cttttcgatc tgctcctac ttccacaatc 60
ctgctccct cctatcttcc tccaaatcaa agtccataga gtgctttaac atggagaagc 120
ctatttcaag ctacatttca ctctctcac ttgaaacacg atctttgtca gatctataac 180
taccctgtt acaaccacaa tggtttacca ctagaatggt atcctccaca attcttacta 240
aatgaatcgt gacattgatc attaccctta acgatgaaaa tatca 285

<210> 4587
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4587

tataatcgac tcttctctt cactttctaa ttgcgaataa aaatgtaaaa taaattctct 60
cataattttc actcttcata tccacagggt tccaaacaag ataatgttaa atgcattcat 120
aatcttcaat tctttgaaca catttctgaa tatttttgtt ctaacaaaga ctcttaagtc 180

tgaagaaaaa aaaataagaa tgacaaaaaa aaagactcta ttttccttct ttagacgtca 240
tcaaacgaaa tcaatttttc tttttttatc ctggaagagc cgaatcanat tgtanaatat 300
tacataatga cccanagggtc anaatcaggt tntgctggga acatanntta cgaatctact 360
acaataaaga ctatctaacg c 381

<210> 4588
<211> 307
<212> DNA
<213> Glycine max
<400> 4588

agcttgagga gggtaaataa gaaaaaatac atttataatt ggtgcctgct ttagtagat 60
aatgctacca aggcttgagg ttaaactaat ataatttttg tgtgcttttt cttttcttta 120
agcttctcgt gtgtagttac tgcatattta ttttaattta tgaaaaatct tcatgttaaa 180
acaagactaa cttagttcat gcaagaaaag atttttcata gagtattcag ctccagaagc 240
agagcctacg ttttttataa tattaattaa agaaaaaaaa attgaacttt tgaaaaagca 300
gttctta 307

<210> 4589
<211> 387
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 4589

taagccacca gctcgcttng cgtgctgagc atgccgtggt gagctgggtg gcaagctcct 60
cctccatttt tctataaaaa tggcattgga ggctgagggg aaggggtcca acacctttgg 120
caattagatt tcacttaaaa ttagtgagga gaagaagaaa gaaggagaaa atcaagggtcg 180
aggcactttc ataatgcttc catgacgttt tcgtgatcaa ttccgtgaac atttttcggt 240
cttcttcggt cattattcgg ccgtcggcga tcttcaaccg attagttttc gatttcggag 300
ctttgaattc attcttgctt ttgattgtnt cattttcata tcgtctactt ttagtattct 360
ttttcttcgt ttttaagtga tttcaat 387

<210> 4590
<211> 304

<212> DNA
 <213> Glycine max
 <400> 4590
 agcttcctcg gtgccattcc tgcaaaggca aacatttgga aagttagttc taccagtggg 60
 acattactct taaagcaaaa atggcatata acctccttcc ataaatacaa acatcaatgt 120
 aaatttagag caagcttatg cgcataattc cttacaaacg ttctcttgca caagacattc 180
 tattaaccga aaaaaatgca cccatataca atcaaggcag ctctcgttacc tagattattt 240
 acacgtactt ccaaggtgta tttgttactt acatcacaca catcttcttg gctaaattca 300
 cata 304

<210> 4591
 <211> 246
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4591
 attcagaaga ttagagttta tctcttttat cttagcgaga gtgattctcc taaattcttg 60
 agtgattcaa gaacaccttg gctgtatcaa aggactttca caacctttgt gtgttgccct 120
 cgctggaaaag agngattctt tccttccttt catcatcacc cttgttcttt cataccacca 180
 ttccagaaaa tccacctctg cccagaatta tctcgtgggc ataactccaa tntaagcact 240
 caaata 246

<210> 4592
 <211> 302
 <212> DNA
 <213> Glycine max
 <400> 4592
 agcttaagcc ttctatttca tcaaatagtg ataacgcttt cttcacctca ccaatcttgt 60
 gaagagaatc cataaaaaata ttatatattt caacactaac atgacctttt tctttcaatt 120
 ggccaaatgt ctctaagcc attatcggtc ccttcttctc caccaaaaca gagaagaatt 180
 tggagagatc agcaataaca ggaaaacca acttctgcat ctgctcaagc aacttgcaaa 240
 attcttccat tctattcgct tcagcatatg caaccaacaa cggtttcacc cgtaagaagt 300

ct

302

<210> 4593
 <211> 340
 <212> DNA
 <213> Glycine max

<400> 4593

tggagggagg tccctcactc gtatctgtca ggtgatagtg gcaccataa gaaagtattc 60
 atgtgaagca cctgatgaca agtctctttt atatgaaatt acatatacaa tccactatct 120
 tatcaaaata tggcaatcct gtagtcatta attctccaat ccttcagtta ggttataata 180
 tctgaaatgc tagctatgac cagattcttc aactcagggg aatatgataa tgtggaattc 240
 attttaagaa tgcttcgtgc attcggcact ggcacacat aattggaatg ccgttgatga 300
 tgcccgcag tagcataaat aaactaacgc tagcagaatt 340

<210> 4594
 <211> 344
 <212> DNA
 <213> Glycine max

<400> 4594

agctttatga agttttctgg ttttctaaac cttgaaaact tgtgctattc atcctcttca 60
 ttctcttctc cctttgccaa aaagaattcg ccaaggatta accgcctgaa ttctttttgt 120
 gtctctcttc tcccttttcc aaaagaacaa aagactaacc gcctgaattc ttttgtgtct 180
 ccttctctcc ttgtccaaga attcaaaacg acacagtctg agaattcttt tgattcttcc 240
 cattccctta tacaaaagtg ttcaaaggac taaccgctg agaatttttt gtatcccagt 300
 cacaaagata aaggtttaac agccgagatt ttgtttaaca catg 344

<210> 4595
 <211> 303
 <212> DNA
 <213> Glycine max

<400> 4595

tcttctcga tagccctctc cttgcacctc caccctctg acgcacttcg ggtgcacctc 60
 ctgaactctt ctctgtcacc tggttcgtcc attatcaaac accaaaatca aaaatgtcaa 120

cggaattg ttgaaagttg aaactctctc taactctgaa tcataaacac ggaaatcggg 180
atgatggtgc taaggaacac agccatggac tgaagaacaa gacagaaaca aattaattaa 240
ggtgatggta gtagcattag aagagtgtgg gatgaaaggg gaaaacgcag tgtgtcagtg 300
gag 303

<210> 4596
<211> 295
<212> DNA
<213> Glycine max

<400> 4596

agcttttaca aaaaggttca tcaagtcaag ttgaaatatg gaagtaacca tcctgcaaaa 60
ttggggcaaa agatgaatcg agtcacatca ctgcttcgtc tactgcaaaa catatttagg 120
attattgatg tccttggtac ttccagtttc accttgacaa agatgtcatg gaccatgttg 180
aaaatctaaa ttgattcaac cccatatact gcgtaaaaat tcgcaatact tcgactgtac 240
atcattcgca tgcattcatg cttttcattg gttgcattgc tcattgcatt ctttc 295

<210> 4597
<211> 298
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4597

tgtgcttggt tttttaaatt cctaggatca tgagcaacct ggtgtgtcct gctatgactt 60
gagaaacaaa agggatcaaa taacaggccg aaattaaaaa gtactanggt tgctcctag 120
tagtgctttc tttacgtctt gagctggacg cgtgatggca tgtccgtcac ggacctagta 180
ctttgcttac ctttggtttt ggacttggtc gcctattggt cggncatggg tcgtaagcaa 240
tgctctaacc tttntttgga tgatctgagg tgaactctaa aggtgatggc ggtgcgtc 298

<210> 4598
<211> 315
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4598

agcttctaaa gtctaacctata ataaaagcat acctgccagc atcttcaggt tcatctaact 60
 caaaagcatc aaactcaaat ctttctgggt tagtaacagg catacacaac gtttccacac 120
 atactaagcc ttccttggtg atgaaaaatt tgttgatttt gacgagaacc tcaatacaat 180
 cttcaagcac atattcaacc tttttataga atgttctgat agtgccaaaa agaagtttagc 240
 caagcactct gtaggatata gcatcaattt cttgcaaaat cttgtctgcn gaaggtaaaa 300
 atgaaatgaa aataa 315

<210> 4599
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 4599

agcttagcta agccaaagtc agagatcttg gcattcagat ccttgtcaag taagacattg 60
 gttgccttaa tgtccctgtg tactattttc aaccttgact cctcatgaag ataagccaat 120
 ccccttgcta tccccacaca gatcttcatt cttgtgggcc aatacaagtg cagcttctgt 180
 tcatgttcac ctacgggaaa tgcgggggga aaggaaataa gctttttctg ttatatattg 240
 attttgaagc agaaacatac acacacaaac acaaggtata tgttgcccg aaagcattta 300
 ccgaaaagtg cagcagcaag actggtggtc tccatgtatt catatataag tagcaactgg 360

<210> 4600
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4600

gtattgctgg tataatttgc ctgttccatt attctcttaa tgnctttaga gggtacttcc 60
 tcattgacat cttttgtctt gaatggaatt gccatgacag gcttattgtt actgtctttg 120
 atgttcggca gttgatattg tgttgcgga ggtaattccg attggattaa ctcaccatcc 180
 ttcacttgcc aatttggtat gacaatttgt gttggatcac ctatgatgtc ttgtttccaa 240
 aggtaatcta tatccattct gatggcataa gcatgaaacc aatcaaaaaa aaggacatta 300
 attttgactc tttcgacgaa ttcgtagaac ttgtcttggg tt 342

<210> 4601
 <211> 304
 <212> DNA
 <213> Glycine max

<400> 4601

agcttgccca gagaaggagt ccacagagga aatgcttacc accttataag actggaaagc 60
 ggttttcta gactcctctg cggcctccac ataaggcata gaggatgggc agctcaccaa 120
 gatgtcttcc tcgcctgaca cgatgaccaa atgccccctcc actacgaatt tcaacttttg 180
 gtggagtgtg gagggcacia ctcccattga gtggatccac ggacgcccc aacagacagct 240
 gtaggggggg ttaatatcca ttatttgga ggtgacttga caggtgtgag ggcctatttg 300
 tact 304

<210> 4602
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4602

tttgggtacaa agaagaagaa gaagttcaaa gagattcatt gcttgtaaag gattgtaaga 60
 gattttttcaa aatgcaaaac aaagccttgc ttttatagac tcttcatgtc tggtaagaa 120
 gaccattcag aagagttatg actttttagaa aaacttaaaa cccatttgaa aaagtcaaaa 180
 cctttttgaa gagttacatc ttttagatctt tcagagacaa aacttggtaa tcgattacca 240
 aataagtgtg atcgattaca ccaaagcttt gagtgaaagg atgtgactct tcacnattaa 300
 atttgaattt caacgttcaa ggcaactggnn tatcgatacc anaacattgt aatcgattac 360
 agccttttga aatatttgga acgttgtaaa tccagtttga aatcttt 407

<210> 4603
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 4603

agcttgctgg ttagtttggg agcacatatg tagtttggtt atgtgtaatt tgcagtctta 60
 cttgttggtg atttaccat gggttgattg ctataaattg aagagaaaaa ttactattt 120

agtgtggatt ctacactttt tttttttact ttaatccaaa tatttcttct tgattttatt 180
 tcattttctt ctcttcttct caatcaaaac ataactgaca ttcataatcta attgactcaa 240
 ctagtatagg ctagtttgac ttttttttcc ttcttgata aaagaaatca aattcatata 300
 taatagaatt taaatatcat tacaagatca attattaagt ttctaactaa gaaatggtat 360
 tattgattct atcattt 377

<210> 4604
 <211> 281
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4604

atttgatttt ttatcataaa ttatgtttat aaaatatata atatttctct tgagtaaaga 60
 tataatatat tattttctta tcgntgataa aaaaaaatta ttttcttaat ctactggat 120
 atattttccc gaactggctc tatcaactct ttaaaaaagt gacactgtta aagtctcacc 180
 ttaagttgaa taagaaattt aatgtgacac tcaatcactt ggacattgat tcttgattct 240
 taaatggaga atgaacacca tgtttgctat aaattctatt t 281

<210> 4605
 <211> 317
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4605

agctagccca ggaactaatt atatctatgc ctttaagcag gccattttta tatcaacctt 60
 atctgcggaa tcacttctta ctaatgaaga ggctagcata gctgctgccg catccgaaac 120
 tcttgctctt gctaaagcag ctgtgcaggt tgcaaaggat gcagttatac taagtaaaag 180
 gaagcctcca gcagatgcag angttaaatc ccatgtttct tccaaatctg atgatttact 240
 tctcaaatgg tttcatcaaa tggaagcggga agatggtgta cacaaaagtc atgggtgctg 300
 gagcaaaata atggaag 317

<210> 4606
 <211> 222
 <212> DNA

<213> Glycine max

<400> 4606

agcttgacca ggaattatTT gtatgggttg gatgttgaat tccggttggt cctgggtgcgg 60
agatgatggt acagcgggtg aacccaaaagc ggaagtttct tttggtgagg tagccatgga 120
aaagcagagc gtttggaatg atttcgtaaa tctcagaagg ctattgggaa atgctggtaa 180
aaacacgaat gccaaacaga tataaatttg aatgaaaaat gt 222

<210> 4607

<211> 195

<212> DNA

<213> Glycine max

<400> 4607

agcttgctat gcaaataaca tctgcccttt tctttttaag atttagctgc gacgacgaag 60
ccatgagttg aatagaccac catactgtct tacctttccc cattgtctag cacatacttt 120
cagcccatat gcaaataaca ctcgattatt ccatccagat taaaggatag tttgctacga 180
tttgcataat ttgag 195

<210> 4608

<211> 358

<212> DNA

<213> Glycine max

<400> 4608

agcttgtcca agaggttctt cacctcagta taacctgcat caaccaattt cagatcatgt 60
agtaaacaca tcgatctgct atatcattaa atcgagagta aaccatcaac ttcattcccta 120
aactaatact ctctctgtta aatagtcctt aaagtaaaac aaactatgaa agtgtttgaa 180
atcatattaa gtagtcacca aactactaaa aaatccttca gttgggtcgt aaacttcact 240
aaaatacggtt aacagaggga ctaaactaaa gtgatggata ttcaattctt taaagattac 300
ttaaacaact tcattacttt aaggatcatt tgagagatca acagtttaac gacaaaat 358

<210> 4609

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 4609

agaataactaa gcttttctccc tttcttttag aaatccaggc ttcgaactgt ttcttacact 60
cataacaaat ggcaatttta ttccttttc cgtttgggtg taccaaagct ttaagaata 120
aggtgggggc accaagtctt ttttgaatca tttggtaaat tggctgaatt cattttaaaa 180
attttatgga aagacagata tttgtttgat aacatttttt accctgngtg ctgactgat 240
agcttatgca tatagctgaa tatatattat tacatctgaa ctccagatgc catacacaac 300
aatttagagt aagcaaccat catttaacaa caatttagag taaggaacca tctttaagtt 360
ttaatatcaa caacgaaatt tattct 386

<210> 4610
<211> 296
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4610

agcttctatg atccgtcaaa atttcaatgt ggtgccccaa taggtattgc ctccacttct 60
taacagcagt ggtaatggca gctagttcac gaacataggt gaaggagctg agtaacttat 120
ggcaaaaactg tttgctaaag aaagctatta agtgtcttcc tttgtgacaa cactgtgccc 180
attcctgagt cggaggcgcc tgtttccacc acgaagggtt tggtgaaatc aggaagtgtc 240
aatactggng aattattcac gacattcttc aagttttgga aggcaactgt agcttc 296

<210> 4611
<211> 290
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4611

atttccaaat atgcatgtga attangaagc atcaacaaga atcaagccaa ggctattgtg 60
caagcaatca atggggcaaa acacaccana agattatgat gatggatggc tcaaattctc 120
aaaaaggtaa acttatcact ttcaaattga gctttcaaaa ctatcatgac atgtagagga 180
aaaacaagga tttcaaata caaatgtca agagactttt aatttcagaa caattttctc 240
atttcttgaa catatcctgt aatttcaaag aaaatatgca aaagtgtaca 290

<210> 4612
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4612

tccatcaaca tgtagaggag aatcaaggat ttcaagtttc aaaatgtcaa gaactttttt 60
 tttcaaaaca ttaacccttt cttgaacata tcttttattt aaagaaaaac atgccaagtc 120
 gtacatgcac acggaattga cccaaaatat taaactgaaa atccgacgaa actaacaaca 180
 tttgcaaatt aacacancta acanattaac aaaaccaaca aaactagcaa aaccaaaagaa 240
 cactccaccc atacttaaac aacacattgt cctcaatgta gcacaattaa nagattaaaa 300
 acaattaaat catcaaatag aatccgacaa gtgtaataaa agcaaagaag gagataggaa 360
 nagaanaaac tcctaagtca tg 382

<210> 4613
 <211> 127
 <212> DNA
 <213> Glycine max

<400> 4613

agctttacag cagtatttag taatgacttc ttaacctaga attaaaataa cttaatgcc 60
 ttaacctagg gaaataaaac aaactaaatg actgagtgt actgaaattg ttggcaacca 120
 aaagtca 127

<210> 4614
 <211> 279
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4614

agcttcagag tgatgctntg cgtgaagcca tttcangaat catggcttat tcccaggaga 60
 agaatcgcaa atttgtggag accatcgaac tccaaatcgg gttgaaaaac tacgatccac 120
 agaaagacaa gcgtttcaag ggctctgtca agctgccccca catttctcgc cccaagatga 180
 aaatttgcac gcttggtgat gctcancatg ttgaagaggt ctctatttgc catattcatc 240

aagactctta atggatcata actatttcat gataattag

279

<210> 4615
<211> 328
<212> DNA
<213> Glycine max

<400> 4615

tccggtcttg cgttcacttc attggtctgt aacattgtct caaaatcagt ttcttggttg 60
tagggaaaaa gttctggcca tccaaggcct agaaactgaa tgatcaatta gggttgtcaa 120
ctttttaatt tacctttctt tggccaggat gaactaattt tatatatacc aataaactat 180
gagagttaa atcatttatt ttaactctat acatttataa actaaaaaat gtacatcaag 240
tttaagggaa ggatgccga taaaaaataa aaaaaaaggt taagtatgaa aatatgacag 300
ggaaaccggt tatgggaatt ctcaaat 328

<210> 4616
<211> 333
<212> DNA
<213> Glycine max

<400> 4616

agcttgccac ccagctcgcc caggtgagct aggttgcttc ctctataagc aaccgccttc 60
tagaggaata ttctggaagg cccaagtggg cctgggtgct atttgaacc ccatTTTTac 120
taaatacacc tcttgctctt ttttgggtgat tcttttaccg taacgttatg aaattttaca 180
aatttcgtaa cgatgcttgt tttctttccg taatgttacg aaaccttacg gattacgtaa 240
tcatcccttt ttttccttcc ggaacgttac gaaactttac ggattgcgca ctaacacttc 300
cttttcaatt tccggcatgt cacggaactt cac 333

<210> 4617
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4617

tgtggaatag gggtgcttag cctgctgctg aagttggcat aaatttgtat ttacagagc 60

agtaccacac actggatttc ctataagact gaaaagcatg agggacacat caaaaaatca 120
 ggcattataa atgaaacagc atacagagaa tcagattgaa gtctagaatt tttctcacat 180
 caatatatth ttgtattgtg aacggagtgt cactgaggaa atctcattgt cttgcaaate 240
 tacaagctgc aatttgggac aaatgttgtc acccatgtcc aatgtattgn tcaatgcatt 300
 tgttcgtagt ttcctgtgaa aatatgaaaa ttatgatgac tatcattcta ttgttggata 360
 actacctatg atcaacataa aagttaggga cttacac 397

<210> 4618
 <211> 329
 <212> DNA
 <213> Glycine max

<400> 4618
 agcttttgtc taatatctct tccgaaacct cacttagact taattattat atagatcact 60
 aaacaccgcg aaatcctcac taatttgggg ttgacgcta gctcacatat taattctctg 120
 gttgaacgta tagcccaact ccacatgat aaaggattag caaataaaaa ttgaattcaa 180
 aaattgtaaa tggagatttt agattcttag tcgattgcta agataactta tatgtgtgta 240
 tcagtgatat aagaaataaa gcgaaacgaa aatatagact ctatagagat ttgatttaa 300
 taacaaagca accgatcgac taattactc 329

<210> 4619
 <211> 173
 <212> DNA
 <213> Glycine max

<400> 4619
 agctttttatc ttgcgaaaaa tcataaattt tctaaaaaag tgggactttc ttagaaggct 60
 gaggttcaca aaaaaattta agctttttgta ttgcgagaaa taatgaacca aacataatgt 120
 cgtccgagaa tcacttaaaa caaacttggt tgacataaaa atcgaagctt ttt 173

<210> 4620
 <211> 188
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4620

gtttttaaaa atggaattgt tttgcaaaaa aaaattatag gccaatgtta attttagt 60
 ttttttggtta gccaccagga ttgaatcgcc aagcgggacc tttcccttct tccctttctt 120
 cttaaacaacn ccaccaacct tatatctcct ggnntttagt gttggttagt tttttaaaaa 180
 aatggaat 188

<210> 4621
 <211> 347
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4621

agcttcactt gcaatttcaa tatactaaat aaacaattac ctgcatcaga actataacta 60
 gaaggtacct cctgctgatg aactgatgga ttgtcgga agttcccttg ttcaaataaa 120
 acagtcaaat ctctatgtc ggtcccatct ctagcactgt aagaatgcc atcttgagta 180
 tatgatgtct ccaaactgac agatgcaggc tcttggaat gtcctgaaat ccgctgcaca 240
 gatgcatcca agtaagaaaa ttgttgatag cttgctgatg gatgggattg gttntgaaca 300
 tcaatataat gtgagtcaac agattgctga tactgatcat gataatg 347

<210> 4622
 <211> 340
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4622

gctgaaacat gccccacaag tgtccctttt gccctctctt tgaatatttt gcacatttcc 60
 ttccgaaatg tcacataacc ttacggattg cacagtaatt agtgtaagc agctcaattc 120
 ggctggcgag attccaaatg ttggcagacg atcattcacg gacaaaatta gggatatgaga 180
 ataccctacc catattgcag cgatgggtcat ccttagacat tagtcactca tagcacacaa 240
 agctaataka aaactacgaa atgggtctaca ccacaaaatt gatgtaacaa atgtactgca 300
 taacattctt cttttangtt agaaatagaa agcaatgcct 340

<210> 4623
 <211> 208

<212> DNA
<213> Glycine max

<400> 4623

agcttacatg tctaagaaga taactgtatt gttctgaatc tgaaaattcc ttggttttct 60
tcccagctac aatctcctgt actatcacac catgactaca gacatatgat ttcattgaga 120
ctagcttact atgaatcata tcacatagag actagcttac tatgttccag ccaccctat 180
tgtatttgcc ttcacttgat ctcccaaa 208

<210> 4624

<211> 374

<212> DNA

<213> Glycine max

<400> 4624

tcattgcaacg aacttcaata aatttgggaa tatttcatat gtgagattat agaggactca 60
gaagcatgcc ttcattgtaat ttgggtactgg tccaatgctt gaaatatctt catcttgcac 120
tataaaaaaa aactagtaat cattgttttt aattcttttt atctttccat ataaaaaaat 180
attttatcta agaaaactct taactaataa ttagtgattg gccctgcaaa cagcttttgt 240
gataagacat taatgggtcac ctgaattaga agagatacac tctgctcaat attcttggac 300
ctgtggcagc aggttcaaca ctgctcaata ttcttggaga ggtctatttt gatagcatct 360
tcataccctt atac 374

<210> 4625

<211> 326

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4625

agctntataa tttatatgaa gttagacact ttctcatgta tagtaatcgt attnttatca 60
ttaattcaaa atatttcatt ttgggaatat gaaaaactaa tattcactta catttaagaa 120
atatcatata aatatgctga tagaaaaatt agcaaactcc ttcataaata tttttctatc 180
tttataactc tactataatt gatagattta atatcacatg gctaacatcg gtatttcaaa 240
aatcaatgt taacacgagc acggtggcat tttcgtaaata aaactgagtt aattcacatc 300

gattgtgaaa aaatcaatgt taacta

326

<210> 4626
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4626

tcaaaacttgc aacaaaggag ttgagcaggt aaaaaagatt cgtcttcaaa ctcttagagg 60
tgactntgag cgtttgttta tggaggaatc cgagtcaatt tctgaatatt tttctcgagt 120
attggccgta gtcaatcaac ttaaaaaaaa tggtgaaaat gttgatgagg tgaagggtcat 180
ggaaaaatac ttcgaaacttt aaatccaagt ttgacttca ttgtaccaac attgaaaaaa 240
caaggattaa agaccatgac tattgagcaa ctcatgggtt cttacaagc atacgaagag 300
naataaaaga gaaaaattaa acaaaatgag gctactgagc aactactaca actcaacgta 360
agggagcaaa ctatgcaaat tacaag 386

<210> 4627
<211> 209
<212> DNA
<213> Glycine max

<400> 4627

agcttgaatc tctatcaact tcttcttctt cttctttgaa ccaaaagttt tctgaagttc 60
tctgggttttc caaaccttga aaacttgtgc cattcatctt ttcattctct tctccctttg 120
ccaaaaagaa ttcgccaagg actaaccgcc tgaattcttg ttgggggtct cttctccttt 180
tttcaaaaga acaaaggact aaccgctg 209

<210> 4628
<211> 276
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4628

tcttctgtaa tgtgtttcac ttcattgttc gcctcaatca gaaaaagata acgttcgagg 60
ttcacataaa tacaataaaa tacgtcacca acgcctatat atagccagcc aaaccaacaa 120

atatntttga ggcaaggaga accgtgtaat atccaatttc atataccatt tatttcatcc 180
 accctttggt gaaataaata aactaataat tcgtataaca cattttttaa catgatagtt 240
 gaataatatt gtgttaaaaa ataataattg ataaat 276

<210> 4629
 <211> 291
 <212> DNA
 <213> Glycine max

<400> 4629

agcttgtagg gaaacccgct gagttctttg ttagcaccga tactctagga ggaggccaag 60
 aaactactgt gtaagatttt ctttttttcc ttgttagtgt tcttgatttg tgaatctcac 120
 ttaaattttg agcttaatat gtggcatgca ttgtgaatca catttttaat ctttatcagc 180
 taagttgagt tgtttatgta ttgtgtaagg cttttcaagg agaaacgaag caatgagctt 240
 aaattctaata agctcaaaat cacatataat tttcacattt gtcattgagt c 291

<210> 4630
 <211> 266
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4630

tgtggtggtc attctctacg ccattttcat cgctgccgca tgtaaaatga cgggtcaaggc 60
 tcttaagaca gcaatgtaaa gatgtanggt atgataatag caaggcaaata tgaaatagaa 120
 tatgtatatt ggtattttcat tgatcctttg catgatatat ataatacatg tacaagaatg 180
 ttctatacca aattctaagg catgacagac gtgatccata atcagtggca tctgatttat 240
 tctatgcatt tataggtaaa taaata 266

<210> 4631
 <211> 350
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4631

agcttctcga tggccaaggt cactaagtgt gattatggcg gaaaccacaca acacaacagc 60

ctcggaaacca ccaacgccgg tgggtggagaa tgacgnccgt cgttctgcct cccgcaagaa 120
 cggcgatagg ctcatcacca aatcgcggaag cgtcatgcgt tcgtagatat gcggaaaagg 180
 aaagatatag aggagaatgt agagcgattt gaaagaaaaa aaataatact ttttcgtatt 240
 ggaaatgaag ggtccaattt catcanagaa aaattccatg attaanagga gtaagganac 300
 tggcccacga acctttattt gcactgaatg tgattttgga tccctgaatg 350

<210> 4632
 <211> 198
 <212> DNA
 <213> Glycine max

<400> 4632

tatcaaactt tgggtctaacc tatttaactt ctatatTTTT acggccttct tctagctagc 60
 tcaaataccc aatggcaatt gttttaatta gctacatctt atgatgatac aatgcagctt 120
 atcatcttta ctatttattt atgaaccaca atactatcct agacaaaaat aatcctcacc 180
 gactcttgta aattatta 198

<210> 4633
 <211> 314
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4633

agcttgcattg cattntagtc ctataaaatg attatgtttt gattntagnt cttacaaaan 60
 aattcttttt ttttattctt ttaaachtta aaattattga ttttaattct atagaatcaa 120
 cataatttgt tttgggttcc ataaaatatt tttggttgcg tttatgggct caaaatttaa 180
 aattactaat tttnttcccc taatctaaag tttttttttt tatcanaacc taaaccttta 240
 attgtaagggt agataaataa cattttaaga atctagattt tttttacgggt attacataat 300
 ggcattatac cata 314

<210> 4634
 <211> 364
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 4634

tacctgaaat attagtgggc cgttttctt gcttccgtga gaaaattaat agcggaaaag 60

tgaacgaaag gattacaata ataagatgac cacccttatg tttgcttgga taattctaac 120

cgcaaatccg cgtaataaaa ggaaacaaat agcttcaaaa aaaaaaaaaa gaaattagag 180

cttttgataa aaatgcatag gaagtgtgct tttgcacaat taaaaatatac taatgcaatt 240

aatacgagtg atgatattac accacataga ggagcacttt tgtctttctc tgnntttaca 300

ccacatgtna gtccaatatg aatatatgat tagaagcgtg tatatgggtt tctatttggg 360

gatac 364

<210> 4635

<211> 210

<212> DNA

<213> Glycine max

<400> 4635

agcttgttct gtgtgttaaa aaactgttat ttgataaagt attggcccat ttctgtgaa 60

ctagagagca caaccgcgcg cccgaacatt ggtgcttgga tcacacggga gatgtccata 120

ctttactgta aagtgttttt ttactgccta caaagttatt taaaatgatt taacaactta 180

tgatagtatg tactacttc ttataaagta 210

<210> 4636

<211> 330

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 4636

actcagctgt tctgcggaaa tttttaggta ctttcaagta tgaaaggagt ttccgacatt 60

tatatacttt cacttcaate cacattaatg gaccagaata aaacttttta ctgaaagaaa 120

aaaaaaactt ttacaccaca cacactcatg aanttatttc tcataaatat ttataatgac 180

acagggttaat taattatgag gactggtaag ttactctaa aatgaaaccc attgaagtag 240

aaaaggagaa gatactcaaa gaaaagagat atatggtgat gtatgaaaaa gacaccgatt 300

ttagaaaatg aaaatgaaat cagatgagt 330

<210> 4637
 <211> 310
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4637

acaaacattt tgggatgtta ggtttacaag ataatgctta tcataacaca aaaatgacat 60
 gctaataccct tctatttaga atgaactcat gcccaactttt aatataaaat atttatgccc 120
 atgcgatgtg ttagaatatt ccactattta tgtcaacgta ccaagacatt caacacattc 180
 taaatgccat acatatatat gcattntgaa aagaacacac atttctatgc tcaaggcatt 240
 gcgtcaaatt cacacctaata cacattctaa acacttgcta tcacgaacta cctacacata 300
 tttgaaacat 310

<210> 4638
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4638

agcttatata tagcaaaciaa tgtactctta tggaaggaag caatattata aaaaagttcc 60
 tcttcttaata ctccccctttt ttggaggcct cctaataccct caattctagg atcataattg 120
 ttacctgtcg cgcttggttgc tgaactttga gggtcagcac ctcccgaaca caaagaggaa 180
 gaaagagaag ataagttggt ttcgagggtta cagtgccttc agaggaagaa gacagccgaa 240
 agaagagtaa ttcgctaatt tcattcatga ttgattcttg tattacatag gcatatatat 300
 actgnattct aattttggca ttctgtgatt tctaa 335

<210> 4639
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4639

nttgataccc ttgcatnatg gacccttaga atactcaagc ttgtgttttag caagtttgag 60
 gtatctaagt tgctgagtga tgacaatgtg atatgtaaat ggagcatcan ggaaaggtct 120

acaaggggtgg gtgcctcaag ccaatggtga aggtgggtgg caagtaaaag aaaattgtgt 180
 tggagcacc c tatgaattgt agaatgggaa atggttggtg ctaggaaaag atgaattntg 240
 atgctgaagt tgagacccaa ggggaagatc atgcacaaga aatattatga aggtgtgttg 300
 tgggtgtttg ttgcaacaag tgaggatcac gaggtctttt ggtttatgaa tatatgccaa 360
 atgggagttt gcttatttgt taaaggtaca acaaaagtct tttgatttcc ccctacgtaa 420
 aaaatgctgt gatgctgctg agggctttct attttctct 459

<210> 4640
 <211> 239
 <212> DNA
 <213> Glycine max

<400> 4640

cagctatgcg gatttgtgcc tcgctggcga aatagatcga agtgggtttt aaaagaagct 60
 tttctgatca tcgtgctctg ataaacgcaa agattggcgc atatgaagag ggtgagaatg 120
 atggagaaac ccattgctacg actgccattc ctatacgggt gagattccca ccaacccaac 180
 aatgtcttta cttaatcaat aacaaccctt gttcttacct accaccaat tattcacia 239

<210> 4641
 <211> 274
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4641

tactcaagct tctttcgaat tcaaactgcc ataactttct gctcggatgt ttgattgcag 60
 accataatat ttcaagatgc tcaaaattgg agatggaagt cccagataaa ttcaaactgc 120
 cacaactttt gactaggatg tctgactgcg gccatcata taacgagacc ctengaaatg 180
 attatggaag ctccgagcan attcaaattg tcataacttt tgaatcggat gtctgactac 240
 agaccatact atatcgagaa actcgaaatg aaca 274

<210> 4642
 <211> 300
 <212> DNA
 <213> Glycine max

<400> 4642

gccgccagca tgaatggcgg attgtacgta aatatcacat tctctccggt atttcttttg 60
 aaacagagccc catcccgtaa attgtgttta aaaggaagccc tctttcgtaa attagccttc 120
 atagatgtct ttctgaattt cacaatattt taatgcattt gaagctatat aaattatgaa 180
 atgaaaataa aaaatgaata gccatttaa ttatttcagt ggatataaca ttttagaaat 240
 aaataaggat taatagtgat ctttatctct aatactgaca aattcgccg caaaagatga 300

<210> 4643
 <211> 371
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4643

cgggatcctt aagcacctga gctgcagctt atgcttatta tgtatggcaa aacttcatta 60
 ttggtgggtca agacatacaa gtgagcttgt aaaaaatctt ctacacttga agtgatcaca 120
 tgcaatcctc ttgaaccctt accaccact ctgtcatcat gccgagactt angaaggcca 180
 acagggttag ctttctcaat ttattctgaa caaaattcaa tggcttcttt agcaatgtac 240
 ctctcaacaa tagatgcttc tggatgataa agattctttg tataaccctt caagatcatc 300
 atgtatcgct caaccgggta catccaccat atgataacag gaccacaaca tttgatttct 360
 ctgactagat g 371

<210> 4644
 <211> 374
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4644

ctgacttgag acattttatg accatanatg tttgtgcatt gcgaggcatc aacaagaatc 60
 aagccatggc tattgtgcac gctgtcaatg cggcatacca cacctttcga ctctttctac 120
 ggagaggtca aattttctta cttgcatctt tctaaaagat ttgttcaaac cttctcttca 180
 aaaaaagtc ttgntcaaaa cctgtggaac caaatttcaa tacctgctcc tttgcaaaaa 240
 acaaagacta cccctgatt cttttgggca cttttcccta caaagagcaa aggctaccgc 300
 ctaaattctt gggctcttct tcttaacaa agaattcaag gactaccgcc tgaatttttt 360

gtctttacac aacn

374

<210> 4645
<211> 311
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4645

agcttgaggg atgagagttc agctattctt attcttcttc cttgcagggc ctttgcgttc 60
ttgatccctt gagtcaccaa gtttaggtaa atgagattca ttcttcatcc taaacttgat 120
ttgccttcat tctcttgctc tagtttctcc aataacttgt aactgccatt ntgtattacc 180
catgaaggat aactttgaaa aacctaaata ttcttcattc ttccttctaa atttcgtgga 240
gtctacaaga ggtaagggga gtctctccaa ctcttgaacc atgtgctttg tgctgaactt 300
acttgaacat g 311

<210> 4646
<211> 348
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4646

ggactagtct taagcataga tgaatttatg ctttagcatg actaagctta agcatatgtg 60
gatctagctt agcatagttg ctgtcaattt ccttggtgca tttaaacttg attcatgaac 120
caaatgagct aaagttgcat taaaaattga gctcattata taaatgagtt gaacttcagc 180
tgcatataat tcgacctcgt tagattcatg aatagactng acttatatat atatatatat 240
atatatatat atatatatat acatccaatt tcgcgttggt tttgactttg atgacatgtc 300
gaagtggaag attacttcac acaagggttag tgactttttg tgttgtgg 348

<210> 4647
<211> 185
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4647

[illegible]

<210>	4651
<211>	72
<212>	DNA
<213>	Glycine max

agcttgtgaa agagaagggc atttcacatc tatggattga gactgattct acttcagcag 60
tggaataata tt 72

<210>	4652
<211>	149
<212>	DNA
<213>	Glycine max

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nttataacta aatttagtga tcttacaaag atcaagaata atcatntaa atttcagatg      60
gataaaaata aaagaataat ttaaaggcaa aaatcaaaat tacctcattt aacanaaact    120
aaaacccata ttaattatat taattaata                                     149

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<210>	4653
<211>	377
<212>	DNA
<213>	Glycine max

agccttggggg agccttgatg ctctcatatg gaggccttang gctgcttatg aggaaaatgg 60

tgggtcccca gagactaacc cttttgcaag gggcttcac c aaggtgtatc tcaaagaggt 120
 tagggagtg c caagccaagg caaagaggta tcccttacia gaagaaaaag aaggcctcaa 180
 atcanagcaa gggaaatgat gaatcatcct ccaccatgca cttctcttga acaacatctt 240
 cagtatcgat ccctttggac ctttcaagtc atggtaatta attaat AAC taatcttgct 300
 tgccatcaca ctcatgatca taaactatgc ttaactagga tgattaactc aatgcggtgc 360
 taggatctag ttttttt 377

<210> 4654
 <211> 381
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4654

ttaaggcaca aatagtgatt tattgtgtta tgtacagagg atgaagaacc cattggaaga 60
 gggataggca tatataaaga aaatggtagc cagttgcac aaacacagca aggtaatgat 120
 ggagaaatat attggaaagg aaagaaatgc gagagaaaaa aaattgtacc aacnnttcaa 180
 acatgctgct ccgatccata cgtgcntttt acttttttaa gtttttggga gctactntgg 240
 aagaaacctt tgagataaaa gatgagatgg gtcaccgaga agttgacact tatcactaaa 300
 tatatggatt aactcaccta aaatatttta acttgagttt gaattttana catantaata 360
 tattaatat ttaaataaaa a 381

<210> 4655
 <211> 256
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4655

agcttcatca aagctccaac ctttgcacac cttttctgct ccaaactcgc aaaggaagcc 60
 attttcggag tegtgaagcg cacctctacg tgtgggactt caaaatttca cgtttgggta 120
 gacttcttct cacataaatt ttcgtgggta ttgggtnttg ggagttatga tgggtagttt 180
 tactaagttc atgcctcatg atagttattt gtgaagaaat ttgatgaaag catgttaaac 240
 ttgtcatggt ttgtat 256

<210> 4656
 <211> 273
 <212> DNA
 <213> Glycine max

<400> 4656

tgtcgaaatt gccatgtttg ggtgagttag acatacccat tctgttttag ggtttttgtg 60
 atgatgtttg tgatgtttat atgctgaaat tgctaattgga aatctgttaa agacgaaggg 120
 tagaactaac ccaagggttag aaagtgagaa tgtgatgtta tgagtggaaa aagagtgaga 180
 ctttgagagt tggaaggcta agtcggaatt ctgtggtaaa tggagggttag agtgagtcaa 240
 tactagcttg aaatgtcatt tagaacatgt gag 273

<210> 4657
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4657

agcttagccg ctttgcanaa gcctcgtgaa tgtgtcccaa ttgatttact ttgaanaaca 60
 aaagccttgt tctagttttt cagatttggg tccatctctc aagttttcta caaatattac 120
 aactgcacat acgtactctt gtgctcataa aaagtataaa aatatttaac agttacaatt 180
 caggaacttc agaataattg taaaatggat accacataac aaatccttcc ttcaaaaaca 240
 aagttattat gataacaaat gcactattgc ttcatgtct atagtctgaa acgattttgg 300
 aataatctat ctaaatttta tgattgactt cctccagctt attctctcaa caacctaata 360
 taccttctaa aagaaattac ttgattttc 389

<210> 4658
 <211> 364
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4658

acactataaa actaagcttc nacacaatca tntcatccc aattagttac agacttggtt 60
 atactgccac ccaacatctt tttcttccgc taaattgcat gtctcattat ctttattgtc 120

$\frac{d^2x}{dt^2} = -\frac{g}{L} x$

<400> 4659

<210>	4660
<211>	449
<212>	DNA
<213>	Glycine max

cgtagaatgg	ttggacatgg	tatatgttag	gggttggcca	tctgttcggg	gataaaggag	60
acatcccaca	ttatttccat	gatacacatg	caacaataat	gattaggaaa	ttttatgcaa	120
aactggtcac	gcatgcacct	atgtggacac	tcaagcatca	aacttttatg	gtcaagtgat	180
gctagggatc	atgattcatt	ttctctactt	tagtcaaccc	ggtgtttcca	aaatatgttc	240
ttttatcaat	ttgtgcattc	atccgagtct	attttgggtg	ttcgaaaaaa	ctttcacagc	300
atttaccctt	caaatgtata	cacatttntt	ttcaaaaact	ggttatgata	agtgaattct	360
ttcaaagaaa	agctggaaat	tatctctttt	cacaagcatg	tcgtttttaag	ctagacaact	420
ttttatcttt	attattttcc	tttntttct				449

<210> 4661
 <211> 452
 <212> DNA
 <213> Glycine max

<400> 4661

agcttggaga ggatgcttca atggaggaaa agatagaggg agagaaagag agaggggggga 60
 gcacgaaatt gaaggaagaa aaaggagag aagttgaact ttgagttgtg tctcacaaga 120
 ctctcattca tcaaagttac cacaagtgtt acatatgctt ctatttatag actaggtagc 180
 ttcccttgaga agctttcttg agaaaacttc cttgagaagc ttctttgaga aaacttcctt 240
 gagaagctag agcttagcta cacacacccc tctcataatt aagctcacct ccttgagaag 300
 ctcccttaag aagattccta aagaagctag agcttagcta cacatacctc tctaatagct 360
 aagctcgctt ccttgagatg agaagctaga acttaactac acaccacctt taatagctaa 420
 gctcaccccc atgacaaaaa aacatgaaaa ta 452

<210> 4662
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4662

aattccttca tctgacttat catcaaattt tcttaattnt tcttttccat tgtttaatac 60
 aaagcatttg caacacaaaa catgaagggt tgaaatgtta ggtttttttt atcattaaac 120
 agttcatata gagttttctt taaaatgggt cttattaaag ccctattcat gatatagcat 180
 gcagtattaa cggcttcagc ccaaaaatat nttggaagag gagtgtcatt taataagggt 240
 ctagcaatat cttccaaaga tctattnttt ctttcaaca actccatttg ttgagggggt 300
 ctagggtgcaa aaaagttatg ttcaatgcca tgcttatcac anaataattc aaatttttta 360
 ttttcaaatt caccctcatg atcgctccta at 392

<210> 4663
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4663

ttacatgggg acttagagca gctgacgtaa ttgcattaat ctgttcattc ttttctaate 60
 agattgccga attttcaa at ttgataaa at attcaggatt tcttgaaatg catttgccat 120
 ggaggtgaat cagatagtga gttttctcat agaataact ttgcttaa at gaactgtcga 180
 gagagaaaca atcatgaggc atttaccgaa ctgtatgtac attgtaca at cacaatata 240
 attaacctaa taataaatac atggatcatt acttncctaa ttatatgaac ttactaactt 300
 atataccatg aatttggacc tacataatta tatgtagnta tgtacaaaga acctggacac 360
 aaatgtaa at tataaggtca attacatata caa 393

<210> 4664
 <211> 296
 <212> DNA
 <213> Glycine max

<400> 4664
 tgagatgtct tctatctggt cattcgagta gacacaagtc ttgacaatgt catgtatatg 60
 gatcttcgtt ccttatagaa cgtaataa at atttcaat at gtgtgggttt gtcgagcatg 120
 attgtgttca aggtactatg tagggcaact atattatcac acaggtcaat tcagcatctg 180
 cacaatgtga atctttgaac aactatctta accagactag cttatatgta ggtagtgagc 240
 tgtccaagtg agccaatttg gctcatccag gttagctaaa atgtgagttg aagcca 296

<210> 4665
 <211> 480
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4665

tggctgactc ggatcttgag ctaagagccg cggctgcagc tatccaatgg tcggatttta 60
 ctttttcccn cgcgcgacc atgtaggatt ctaccgagac gctattatcg atgggctcct 120
 gccaccttaa tgactactga ggccgcccga gagccttggg aacgagatac ctgctctatg 180
 ctccctgtta catctggaga tggcggacca ccatgtctac cctggccgaa cagagaccgc 240
 catatcaccg gtctcaccga caccgtaat agaagctgtg acctgtgagg aagatatgga 300

gatgtatgag gcgctcgaag agaggtccag agcagccaaa ggccttgaca acttctcatt 360
ctcagatttg gtgcgattat gtcttgcgcc cacatcggat tcctctcaag gcaagcacca 420
acctcgtaag tacagggacg acaagtccaa aggcattacg gacagctgcg tatattcacg 480

<210> 4666
<211> 398
<212> DNA
<213> Glycine max

<400> 4666

caatcaatga aacttccatc tttaatggag aggagtacca ccaccggcaa cctgaatgca 60
aatttatatt gaagcgatac acttaaacad ttgggaagcc atataaacat ggacttatat 120
agccaccaca gtcgaaagaa ccacaataga tgggagcaca acaagtgaac gcatagcaat 180
agagaaacct agagatagat ggtctgaaga ggatagaaga ctagtacaat acattttaaa 240
agccaaaaac ataattacat ctgccctgtg aatggatgaa tatttcaggg cttcaaattg 300
tcagagtgtc aacgaaatgt gggacactct acaattaaca catgaatgta caacagatgt 360
taaaagatcc acgataaaca cattaaccta tgaatatg 398

<210> 4667
<211> 255
<212> DNA
<213> Glycine max

<400> 4667

gactacggcg acgctatgag cactctgata tgccgaagat aaaaactgtg atgcctaggg 60
gcttctgtat agaagcttgt gcatatccta tcattctata tagggacttg gagcatagtt 120
atgtggtaaa gggtagactg gagacgcttg gctagattac ctagacacct cttttccaga 180
tgccacgctt gccacaatga gacttctatt gtccttagct gttgtcacta gatgtgatct 240
caggcaatta tatat 255

<210> 4668
<211> 323
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4668

ccctacaaag gagtttaccc catctagagg cttgaggcaa ggggatcccc tagccccctct 240
 actctttaac atagttgggg aaggcatctc aggcctaatt agggaagcag ttaggaagaa 300
 tctatatagc agctacaggg ttggtatgaa ttatgagccc acaaattatc tgcagtatgc 360
 agatgatact gtttttgtgg gtgaggcttc ttngnaaaat gtct 404

<210> 4671
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4671

tgtacttaac tntgcttgca tattctgtgt aactctggcc tatagtctca accatcaaatt 60
 cctcttcctt ctctgccttc tgcttataat acaacaagca tactgccaca ataaatagca 120
 gactcagagg tgctcgaagc gcaatgcagt atgttacaaa caaaagcatt gttgatgaat 180
 atattggatg acggacccaa cgataaggtc caaattgcac tacagaagtt ggctccacca 240
 cattttctga atacttagcg agatacaatg tagcattata ctgcattagc agagttgtaa 300
 tgattaaagc ccagattcca agattgctcc acccaccggg tatgagggtga agctcangcc 360
 cttcaaattgc tgcaagccaa tggccaacca tgactcctgt gctgaacaat aggcgagacc 420
 acattggcaa gttcacg 437

<210> 4672
 <211> 286
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4672

agcttaagct cctttttctg cacttggttc ttataanncg aagagcatcc ctgtggaacc 60
 tttacccgac gaagacactg acaaaaactt atcttcttct ttgtggacaa agtatggtaa 120
 gctgggggca acgaaatctt cttcccatca aaccttggat gcaaatgtga tcgtatgccc 180
 atatcagcta gaacttgacg ggtattcaag ccattcctcg tctcgcttg aatgttaagg 240
 agccgcccac tcacactgtc gcacactatt ttcttcacat gcataa 286

<210> 4673
 <211> 191
 <212> DNA
 <213> Glycine max

<400> 4673

taatgttcat attattacac atatattccc tacaacatac acattagtga ctctcttgcg 60
 tccttaacaa ccactggcgt ttgaccacta gtggtggcca ttggagagga atttcgccag 120
 gggcattttt gtgatacttc atccgaaaac ccagacaccc actccccaca cgaaaattca 180
 tctaagacca t 191

<210> 4674
 <211> 524
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4674

ccctgcaccg cacnngacca taangngaca cgcgccaccac tataccaggg gccnnnnnnn 60
 tagtgactcg agaccanna cggaanaaga cannagcnaa gaaagaaaag agaacagaag 120
 ttctgtcatg acaagagacg aaacaccccg acaacgcaaa gcaactaccg gcgccggcac 180
 cgggctctca acgtccaccc aagaacaaaa agagcaagaa ccagggaaca tcatacgaga 240
 acgacaacaa aaacccaaag gcgaacatt tctgcacacc ccaccacaag atgtgatctc 300
 ttacagcccc aacaataatg caccagctag cacacgccgc aacaccgtga gagctggaga 360
 agaaacagaa aaactacacc gcagtcaagc acggtaaaaa gcaaccacgg ggaccaacaa 420
 atgcgaaaaa caaaagacct tgaagagggc actgcagaaa agagacaaca agattcctgg 480
 gggctgacct tggcataaca caacacacga ggcgccacgt cgcc 524

<210> 4675
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4675

ggaagatggt gctntaatgg aggaaaagaa agaggagag tattattaga tgggggagca 60
 caaaattgaa ggaaaaaaag ggagagaagt tgaactttga gttatgtctc acaagactct 120

cattcatcaa agttacaaca agtggttacac atgcttctat ttatagacta ggtagcttcc 180
 ttgagaagct ttcttgagaa aacttcctag agaaacttct ttgagaaaac ttccttgaaa 240
 agctagagct tagctacaca caccatcta aaaactaagc tcacctcctt gagaagctag 300
 agcttagcta cacacccta taatagctaa gcttaccccc atgacaaaat acatgaaaat 360
 acaaaaaaaaa atcctgctac aaagactact caaaatgccc tgaaatacaa ggctaaaacc 420
 ctatactact agaatggcca aaatac 446

<210> 4676
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 4676

agcttataag aacaaaattg cctcaatcat attcaaataat gcatgtgaat taggaagcat 60
 caacaagaat caagccaagg ttattgtgca cgcaatcaat ggggcaaac acaccaaatg 120
 attatgatga tggatggctc atattctcac aaaggtaaac tcatcacttt caaattgagc 180
 tttcaaaact atcatgacat gtagaggaga atcaaggatt tcaagtcaca aaatgtcaaa 240
 aacttttatt ttccaaaaaa ttaccatttt cttgaacata tcctatgatt catagaataa 300
 catgcaaagt cgtacatgca cacagaattg acccataata ttatactaag aatccgacaa 360
 aactatatca cattaacata ttaacacaac tatcatatta a 401

<210> 4677
 <211> 513
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4677

aggcacnchn nnnnnnatag tagggcttgc acnntcttcg aatnaganaa aanccaagcg 60
 aggangaagg gtngaattgt gatactaccc gcaaaacatg natacctcna acgggcacca 120
 ccagcggatg ctgcgngac aacgactgca tcacgtcgtc aactggattg gtctagcccg 180
 agggagaaca tatacacaat gtagcctggg ctctggaacg gtgtcaaagt attcctgtaa 240
 gatgcgatgc catgcctcct gctgctgttc ccgctagaga ttgagcattg ataactgcaa 300

tgaaagctgt gttccttgac gcaacaaact tgatgtgttg ggatcacatt gatacgaata. 360
 tgagagaaaa atgtccaacc cttgtgggtc aataaaatgc atgacattat gtcatgggag 420
 cctgggagag tctggtggat tgccttctga caagagtcaa tgactgctta taagttgaaa 480
 tgcttgtcac atggcaatgt agtgactatt tct 513

<210> 4678
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4678

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 acaacctata ataacacaaa ctaatcaagt ggaaaagtgc gttttaatgg cataagataa 120
 caaactaacc gacaaagcaa aaagcagtta aaaattttta gcaagcttta gctctaataa 180
 tcttcttttt agntggacta tatgaagtcg atcgcaaact nttctcataa tctttgccat 240
 tagtacggca tacatacaag ttatacataa gctatatgct gtaaacccca cttgtaatgt 300
 cggcatgcaa attatttaac tccggaataa accatttcat tagtactaat tacttaagca 360
 cctaacattt ggtatagatc acattgatat tctccttagt attgggttgaa ctaagtagaa 420
 ttattataag acacaaaatc 440

<210> 4679
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 4679

cttcgccgtg agtagtatga gatacttaaa tcaagagtga cttgtttaca ctatgtaacg 60
 gagtaggagg taaaacttgc aatgatgtca actaatgttg ctatggcact gacatgccaa 120
 ttccatttt catcctatag acataaaagc atagaatctg catgataagg gaagataaat 180
 gcttgaagta aaaggagaat cacattatta tcaatctatt accaacaagc cactgtgtat 240
 gatcaagtca caaaggatga aacctttgtg tgcctttact atccggataa cccttagggt 300
 ggaaagaaac tcttgaccat aagttccatc tgacaggcct tttatccatg tccggatcac 360
 ttctagactg ggatctttca tctctatctc aaccatgccc acaaaccaga 410

<210> 4680
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4680

gctntgacca tttgaattgc tcaagcgctt tctttgttca atatcgagcg tctcgatcta 60
 ttatgcgctt gaatcggacc tccgagtga aagttaagac catttgaatt gctcaagagc 120
 ttccattaac caatttcgag ggtctcgata ttttatgttc ctaaatacaga cctccgagtt 180
 aaaagttatg tccatttgaa tatctcgaga gcttccgttg ttttaatttcg agcgtctcta 240
 tatgtgatgc tcttgaatcg gacctccgag tgaaaagtta tgaccatttg aatatctcga 300
 gagcatccgt tgttcaattt cgagcgtttc tatatgtgat gcgcttgaat cggacctccg 360
 agttaaaagt aatgaccatt tgattttctt aagagcttcc gctgttcaca ttcggggcgtc 420
 ttgatatttt atgc 434

<210> 4681
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4681

ggctctaaact nttcactcgg agctctgatt atgcacatca catatataga cgctcaagat 60
 tgaacaacgg aagctctcga tatattcaaa tggtcataac tnttaacttg gaggtccgat 120
 tcacgcacat aatatatcga gacgcccgat attcaacaac ggaagcactt gagaaaatca 180
 aatggtcatt acttttaact cggaggtccg attcangcgc atcacatata gagacgctcg 240
 aaattgaaca acggaagctc tcgagatatt caaatgggtca taactcttaa ctccggaggtc 300
 cgattcatga gcataatata tcgagacgct ccgaattgaa acacggaagc tcttgagata 360
 ttcaaattgg cataactttt cactcggagg tctgattcaa gtgcataaca catcgagacg 420
 cttgaaatta acaacagaag c 441

<210> 4682
 <211> 337

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4682

taatgccata aacctatgga attaaataaa acttaatggc tgagtgtaac tgaaattgtg 60
gcaacccaaaa ggcacccaca acaggcaaca agtcagccac catttggtat cacaccaggc 120
tgatgcctag gttgccatt gggcccttaa tacaacttga actagaccta actaaagccc 180
ttttagtnga gtaacccaaa acatatttat ggtcaaccaa ctttacgagg attgtgccat 240
tatttagaca aactaaatac tttataattg aaacaaagcg gagagattta gacctectcc 300
attgcgccat gatacaactc acacacttgg acttttc 337

<210> 4683
<211> 285
<212> DNA
<213> Glycine max

<400> 4683
agactagatc gtggatattc gcgttctgct ctgttctagg atcaaggctt ctatatatgg 60
agaaccagct tgtcacacct gcatatgtat gagtctcgct agtttcttca tgttttaaaa 120
tgagttatgt atatgggttat gtatctacaa ctgaaagtga tggcaaacct tctcttgttt 180
gagattgtct tgtgtctaaa agcaatcaac taacagatta tatctaactc acaatgaata 240
gtgttttctt ctctaagcct tcataccaca ttgtatcaag tacat 285

<210> 4684
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4684

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tgaagcgtcg gagacaaact gacattttat atatgactcc actttaatca tttttttatt 120
atctatctag acacttaaca tcaatgtctg gtttgaatc tcttttgtct atatcaaaca 180
atctcgatct tttttcattc ctcatatact ttcatccta ttcatgcata tcagccaaac 240
acaccttaag gagaaccagc ttttcaacgc tctactcag tgagaggtat atcctatcct 300

ttctttattc tccatcatcc ggcgattaag tgagaagcaa ttctacattg ggcttttgtc 360
 ctcaaattgt ggcacaaaaa gtatgatagt tggatatacat gcacttcgat gtctcacact 420
 c 421

<210> 4685
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4685

acctctncat ttgtatgaat aggagnacca taatatcata gcaaacacaa cacaccgaga 60
 ggcactggaa ctaagaaatt tcacagtaca tatgcaaaaa ttgaaaaaca agtgggaagaa 120
 gaacgcaccg agatagatct cctagaaaga tccgctactg attttctgaa aaatcagaat 180
 gtcctttctt acctcctccg cgacgaagtc caattggcca ccacaaagac ggtgctctcg 240
 tcgggggctt cgggtgtcac caccgcaatg gtgggtccact ctggggcgag caacctcctt 300
 ccttcgaagc tccggtccta catcaccaat ggcattccaca acatgttctt gtgcttctcc 360
 tcggagataa ccctaattatt gatgagttcg acgggtctcg caacaactaa atctac 416

<210> 4686
 <211> 175
 <212> DNA
 <213> Glycine max

<400> 4686

agcttctagc caaatggact taccttgaat tatattcctt tgatagccct tttgagcctt 60
 gtttcccttt ccttgttttg aagctcacta caagccttaa gtgaaaaacc atgatattac 120
 catatcctta aggaattttg gagcttttga attgttttgg gaataagtgt gggggg 175

<210> 4687
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4687

gaatntggat ttgtcataga tagtacctac aaattattta gatatagatt gtctttactt 60

gacattgttg gtgtgacacc aactggataa cattttcaac tgcatttgcc tatttgagg 120
gagaacatat aagcaatgtt gtttgggctc tggaacggtt tcaaagtatt tttctaagat 180
gtgatgcaat ccctcaagtt actgttaccg atagagattc agcattgata aatgcaatga 240
aaactgtttt ccttgaggca acaaacttgt tgtgttggtt tcacattgat acgaatatga 300
aggaaaaatg taaaaccctt gtgggtcaaa aaaatgcatg agattatgtc atggaagcat 360
gggagagtct ggtggattgt ccttctgagc aagagttcaa tgactggctt atgaagtttg 420
aaattgcttg ctcaccatgg tcaatgtttg ttgacta 457

<210> 4688
<211> 183
<212> DNA
<213> Glycine max

<400> 4688
cgcttgcatt cgacagagga gcttattcaa tgtagttatt aacgctacga aaattcaggc 60
tctaaagaag gagctgaatg ctttggaggc tggatatctc gacagaattc tgaatcaatt 120
tgaagcggag ctcaagaagt ctcttcagga gcaatcgtgg cacgctcgct atgcctatga 180
atg 183

<210> 4689
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4689

agctcgact aagcacttag acccctgact agttggctgt ttatttagct aagtgcacat 60
cactacgtta agcccaacat cttcattgga agtaaacttc aagcagtggg cttagcagac 120
atgatccgct aagcaccact tcttctctgg aaaagcttat tatagcagtg ctaagcgcgt 180
tgtcctgagc taagccccag atccattctg gaattgaact ttcatacttg ggcttagtgc 240
ggcaggatgc gctaagcgcc aatccttcat tgtgntttga attcttggaa gtgtgcttag 300
tgcacctgtt gactaagcc taaactactc tctgcaagtc gaagcttgat tgcgcgtaag 360
cctcacctct atgctaagcg cctattcaga aatttcgcgt cgcataagcg ctata 415

<210> 4690
 <211> 281
 <212> DNA
 <213> Glycine max

<400> 4690

cgcttgcccta tcacccctgat tgactctata tctttatagc tgtacccagc acactcgttt 60
 gaccactgtg agaagtaaatt tctcatgctg agaacagtca acacatctaa gctggaacat 120
 ctataaaact ataagcattt aagcatgttc aggctataga ttcccaattc agggatgtca 180
 cctaacatga gtgaactgaa attacaggag cgtgctgctt atataattct gaagctgtta 240
 cagggggaag catagctcac acgagaatgc ttttcctgt t 281

<210> 4691
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4691

agtaggggta aagtctcacg attgtcatgt gttgatgtaa cttcttgtca tacaaagtca 60
 ggtagccat aactcgctg tgctatntct tccatgccat atatagcana gtcgttgatc 120
 ctgtcaagta tgatgagctg gaaaatgagg ccgaaattat actatgccag ttggagatgt 180
 atttttcccc tgctttcttt gacatcatga ttcacttgat tatggatctg gtcagagaaa 240
 tcaaattgtg tgggcctggt tatttgtggt ggatgtaccc gggtgagcaa tacatgaaga 300
 tcttaaaagg gtatacaaag aatccttctc atctagaagc atctattggt gagaggtaca 360
 ttgcaaaaga agtgattgaa tcttgttcag aattcattga gaaggctaaa cctattggcc 420
 ttcttgagtc tcgcatgat gacagaac 448

<210> 4692
 <211> 300
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4692

agcttgtagg gttcacccca nattctcggt gtcatatgct aaacttgatc ccatactac 60

304403

ttgataattc aatggtagcc ataaccctag ccaaggttca tcaacctcca tttctccgag 120
aatacgactc gaacgcaatg tgtgcttggt acggagaagc cccggggcgt tccattgagc 180
attgtacggc tctgaagtgt aggggtgcgag gtctaattga tgctggctga aatttgagga 240
gaatcgtgtg taaatcctga cattgacaag agatgccaca catggtgcaa ttttgaaagc 300

<210> 4693
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4693

gctttaagaa aaaccttatt tatcactcac tagacgacat tcttttgtgt taaactaaaa 60
ctaattttct atcactagat gatatagttt atcttggtat cttgtgaaaa actcttcttt 120
gtgaaaaaag cttatatctt tgggttaacac acttttcgac ccctttctaa tatgatcttt 180
gatatttcaa aagtgtacta gtcttcttcg tatattggct tatgactcac ctgctgatag 240
tgtggacatg tatattcaga ttactaaaag cactgtagtg gaatgcttac aaaaaattgt 300
atcaaacatg tgtgcaatat ttggggatga gtaccgagg aggccaaata ataaagacac 360
atgaagacta caaattgaag cagtacatgg ttntctaggt atgttagggg tcattgattg 420
tatgcaatgg gaatagaaaa aaaatgtcca gttgcgtgga aaggctca 468

<210> 4694
<211> 433
<212> DNA
<213> Glycine max

<400> 4694

agcttagtaa gcttatcttg atatgagttg ttgaaaatca taatataata ttctaattct 60
attaacaata gcagctcata acacacacta ttttttggtt acaggacaaa acatcttcta 120
tttatgcata attaattgaa ttaacctata taaacacaca tctattgtat attcaaacac 180
acatttgatga atcatgcagg ttttgatgat gtcgaaaaga attcacttga taacgattgt 240
catcatcaaa aaggagaga atgtgaacac ctagagtgcg aatgtatgaa tacatgattt 300
tgatgatgcc aaagaataat caaacaaggt tactttcaag attacttcaa caaacattca 360
aaggttaagc attgcttcaa gattaataca aggttgcttc aacaaacaag cattgcttta 420

agattaattc aag

433

<210> 4695
<211> 440
<212> DNA
<213> Glycine max

<400> 4695

tagtagaaat tagaattcct ttagaacatg ttttatgcac cttgtaaaac tagactgtac 60
aagattagac aatgtaaatt cactgtgt ggatttacac taagtataat taatgtggat 120
cactctaata tctatgtaat tagcaccatt gtctacgtta attagctagt ttacttctt 180
ttggtgaaaa aagttgcctt ttatgcctaa tcttatctta ataatttata acaatattta 240
caaaaaggaa actacaaaaa aatggctagg gctctcacc aactgcacct tctctctctc 300
tccatcaact tttttcttta atcaagtgtt tgggtgacatg aggtagctta agaccaatg 360
tgcattggga acccttgaac ctatagctat cctagacttc ataaacactc caagttcact 420
ccactttgtg ccttgctatt 440

<210> 4696
<211> 239
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4696

agctcgtaac ttgtttatgt anaaaagaag ttattaatct tgtgtcttgt aagacagtat 60
ctcaaagatg agagatgtat gcaggtatga caaccgacga gtgtataaat taaatcagct 120
cgagtattga tgttggagtc ctcagcaaca aaatggatca attataatac acccacatgg 180
ttaatgaaat aaatcatttg tgatattatt aattcggatt aattatgtac ctgtctctt 239

<210> 4697
<211> 567
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4697

taacgtcctc acntgtcaac ttacgatctn tnnnatccaa taaccannnn nccnnaaggg 60

gnnnnnnnnn nntttctggc atgagaacgt ccacanccaa acnnnagcnn agnnnaagnn 120
 annaacaggg agaagaaaac cggccacatg tattacgcat ctatnaccgc aaaagaagga 180
 ggctaaagaa cgtcctatgc tcgcacggac aagttagacg acgatgagca agcaaatttt 240
 acatgctcgc tgaggaaact ggaagacgat actgatccgc aacaaacgtt actgctcaac 300
 tcgaataaaa atgtgcaagt caaaagaacc ccgagtcgcg aagagcactg gatggccaac 360
 ttgaaccaat tacacaaatg acatcggaag tggttgtcac taagactcaa tcagagattc 420
 cactagtcac cgctggaaga acaggatggt cctcacaaaa aggcgaaaca tcgacgagca 480
 tatatactca taaaacaaat gtatgccaag ccacctacaa aaagactcac ccatcagcta 540
 aacacctgaa tgaccgctcg aaagccg 567

<210> 4698
 <211> 434
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4698

agctntgatg atatggtctt caccgatgaa aggatcaatt tgagtctaan aagaggcaaa 60
 tctgatcatc atactttgat aaatgccaaa aaaaactagg gcaaatgaag agggtgagaa 120
 tgagggacaa gccatgctg tgactgccat tcctatacag ccaagtttcc caccaaccca 180
 acaatgtcat tactcagcca ataaccgacc ttctccttac ccaccgcca gttatccaca 240
 aaggccatcc ctaaaacaac caciaagtct ggttaccgca ctttcaatga cgaacatcac 300
 ctttagcaca atccaaaaac accaaccaag atatgaattt tgcagcgaga aagccttaga 360
 attcacccca attccagtgt cctatgctga cttgctccat atctacttga taattcaatg 420
 gtagccataa ccct 434

<210> 4699
 <211> 469
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 4699

tgaagatggt gctntaatgg aggaaaagaa agagggagag tttgttatag gggggagcac 60

aaaattgaag gaaaaaaagg gagagaagtt gaactttgag ttatgtctca caagactctc 120
 attcatcaaa gttacaacaa gtgttacaca tgcttctatt tatagactag gtagcttcct 180
 tgagaagctt tcttgagaaa acttcctaga gaaacttctt tgagaaaact tccttgaaaa 240
 gctagagctt agctacacac acccatctaa aaactaagct cacctccttg agaagctaga 300
 gcttagctac acaccctat aatagctaag cttaccccca tgacaaaata catgaaaata 360
 caaaaaaaaa tcctgtctaca aagactactc aaaatgcctt gaaatacaag gctaaaaccc 420
 tatactacta gaatggccaa aatacaaggc ccaaaagaag gaaaagaac 469

<210> 4700
 <211> 519
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 4700

nattgagcgc ttggacttcg nngcnccteta gagtcgagct gcnaggcatg caagcttgga 60
 aggtagtcat aacctcaciaa aagatatata tacttatata tatatatata tatatataga 120
 tatacatata catatatata tatatatata tatacatata tatgtctggg gagaacgac 180
 ccttgatata gcgtgtatgt tgcacaaaaa atttgacaac atatgtatat gtgtgattag 240
 gcagcaccat accttgatc tgctgtgat tagataaata tttctcagaa catatatata 300
 catgcttagg ttgaagaact ctctgtggca cacatgtata tagcacaata cctcacaaaa 360
 attcacgtgt gctcatgtag catacaccct cttgtatcac ccgagagcgc tctagactag 420
 attactacgc aatacacttt cgaacgagac tatctctca atccatagcc gtactcatgc 480
 gccgctcatc tcatcatcca ttttccaga tcgcactcc 519

<210> 4701
 <211> 438
 <212> DNA
 <213> Glycine max
 <400> 4701

cttccttttag tgcgtcacgt ttaaaaccga gctcgatggt gtttgttatc cttgatggta 60
 ctccggcgga agagatggga gatatcgaca ttccattca gataggcccc cacacttgca 120

atgaggtggt tgacgtaatg gatataaatg cgcctatag ctgactcttg ggaagacctt 180
 ggattcatgc cctgcgagtg ggcccttcaa cgcttcacca gaaagtgaag ttcgcagagg 240
 gtagactttt agtgatagtg tctggtgaag aggatatgat agtgagtagc cctcctccg 300
 caccgtacat agaagcggcg gaagaatcat tggaaacggc tttccaatcc tataaagtgg 360
 agagctgcgc ctcggtggaa ccaagtagct cgctactttc tctctccaac gtggacataa 420
 tgggtggcgcg tgttatgc 438

<210> 4702
 <211> 224
 <212> DNA
 <213> Glycine max

<400> 4702

agcttgccgc cacggagttt tccgactatg ctcttggtgt gtggaacaag ctacaaaagg 60
 agagagcaag aatgaagag ccaatggttg atacatggac ggagatgaaa aagatcatga 120
 ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180
 cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggat 224

<210> 4703
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4703

tataatatat tattacactc gaaattaaac atcagaagct ctcgatgat tcaaattggtc 60
 ataacttttc acccgatgt cggattatgg cgaatcacat atcgagacgc tcaaaattgg 120
 acaacggaag ctcttgagaa attctaattg tcataacttt taactcggat gtccgattca 180
 cgcgcatcac atatagaggc gctcgaaaag gaacaacgga agctctcgag aaattcaaat 240
 ggtcataact ttncacactg aggtccgatt cacgattata atatatcaag acgctcgaaa 300
 ttgaacatcg aaagctctca agaaattcaa ttggtcatca cttttcacac ggatgtccga 360
 ttcggcgcac atatgtcgaa cgcttgaaat gaacaacgga agctcttgga aattaaatgg 420
 tttaactttc acacggatgt caattcaacg catacatat 459

<210> 4704
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4704

agcttacgtc atggttcaat gtatggtttt cttgagcctt atgtttatac acaatgcana 60
 ggatagatgt caaaaatttc aacattacat taaaacatgg gtgaaggaat cacaacgaga 120
 agcatactta ggagcttact tgaatcaata tgtaaaatat aactagtacg ttcaaaaaaa 180
 tatttgcatt atacgtacct aattatagtt ctggacttta gggcacaatg gaagcttggt 240
 gttgtgtgtc catgggacaa tactattggt tggttttggt ctttgcgtaa gaagcctgat 300
 gttaacatca aagctacaat taacagggtta tgtttaaaat tataattcat ttattgtata 360
 acaatcgtag gatatgtaaa cacgaatttg atgctatat 399

<210> 4705
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4705

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 ctataactag gcatgatcgg ctgcaggaaa agtcagaaac ctgaaatcaa caagatttga 120
 gagaaattag tgagaagaag gagaaagacg aagaacaatc aaggttgaga cgcttccgta 180
 acatttccgt aacgttgctg tgatcgttct tcgtccattc ttcacgttc atcattcatc 240
 gatcggttag ttnttatttt tgaagctttg aatttattct atgcgccctt aggtgatgga 300
 agcttgcttg tggcgcttct atggaggcta gatctttgag cttcaatggg gtcctttaat 360
 ggtgatntc caccatggag atgtagcgta agacaaagga gaagaggtga gaggaggcgc 420
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<210> 4706
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 4706

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 ccagtctcat acgacgacat ccatacgaat ccagactcat gagacgcttg atttccagat 180
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<210> 4707
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4707

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 gatcatactt ccacctcaga atggcagcca gggatatatc aatcatgcac aatgtaagct 180
 attagctaag tggctatctt caatacaaac atggccttca tcatctccaa tttcacacat 240
 tcattccata ctcatatatt catgcataaa tcattactca atgttaggca ttctctcaca 300
 attaaagatc acactttcac cgggttgagg ctaatgcgtt ccttcacaat caactcgaca 360
 aaccaactaa cattcttagt catgatccta agtcaatgtg ctttctcttc taacgactgc 420
 atgctcattc 430

<210> 4708
 <211> 217
 <212> DNA
 <213> Glycine max

<400> 4708

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 aagtgatact ctgatacatg ccatcaaaaa atatggtagg atgattacgt cgataatgat 120
 ggacaagacg aagatgtgac tgccattcct atgcagacaa gattgccacc aacctcccca 180
 tgtcattact gagccaaata cccacccttt ccttaac 217

<210> 4709

<211> 338
 <212> DNA
 <213> Glycine max

<400> 4709

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 aatccctcac tccttgggtt ttctattttc ccaccattct tcaattcttc aaatgcagta 180
 tgtccctcag aatttttctca tgcaccatcc aactctgtaa tacaagtctg cacttcatgt 240
 tcctcctctt tagttcttct aggtgcgacg gtgactccga acgactggca gaatcctgtg 300
 atcaaagcgg gaaataccag ggcctattg gacttata 338

<210> 4710
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4710

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 atganaactt actanattag attaggtgct cgggctagat tactggtgga ttcactttat 120
 acaaagaatg attaactcgc ttaggtaact tgtaaccaat tgcaagtacg gaaaatgaaa 180
 tacacctaata aacgaacctg taaatgacta gcaacattct cttttgtcaa acctgngaca 240
 ttcattctctt caagaattct ctttggcaca acctctaaaa aataatttag gcagaaaatt 300
 gtaagtgata gatcataact tacatatatg tatgcgtcca tatattcttg aattgatgct 360
 catgcaaagg ttcaattcaa anacacacc gcccaa 396

<210> 4711
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4711

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<223>      unsure at all n locations
<400>      4712
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<210>      4713
<211>      576
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      4713
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<210> 4714
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4714

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taactcagac ctgcaaaaaa tactcggttc tacgagctta aacatacatc ccggcactaa 180
ggcacaatgg aagcttggtg atgagagtcc atggcacaag gcttacgcac tgatctgtgc 240
ctagacacac acccatctca cagtctttac actcaacacc ccggctaata ctctccgata 300
ccctcgtcac cgctggacga gctaaatctt actggacgct ctagtcttac ctactttttg 360
ctgttgacta gcacttatgc cagaccccaa tgactacctt ccccc 405

<210> 4715
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 4715

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agaagaagga tcaaaggcca acgaaaatga cagggaggga agaagaatag cagcggcgca 120
aatggaagct tagcttgctt gtgtacgtat aacatgaaat gttgatgggt gcacccaaat 180
cttttaaatt aaggccaggg gtatttttga cttttcacat taaatggtgg gtgcacctag 240
catcaccctc atagaaagcc taagtgtgaa aaggagaatt gtatgggtca taaacccttc 300
cctaaccatc acaattcata ttgtcatttg caaagggact ctctcttttc tttttcttct 360
ccaagagaga ctcaaactct ataagcttga ggtatgggtg tggtaatcaa aggagatcat 420
nttcctcttc ctttgatg 438

<210> 4716

<211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4716

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 aagatttcca atcaaaaaga tagcaaaaaa gaatagaagg aaaattcccc aatcaaagag 180
 tgggagaaaag canaaagaaa agaaagataa ttcccaatca aagaatggga gaaagtaaaa 240
 aaggaagaag aagaaggaaa gatagctcct gatcaaggat cgaaggacaa cagaagaaat 300
 gtgcagaaaag gtctttggac cggacaatat ctgaacaata cagaattgtc accaaatgaa 360
 anaaaagaag gaaagggaaa ccacgaccta aatggtcttc ttcctttgat accaaccaaa 420
 atccc 425

<210> 4717
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4717

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 cccgaaagga agaacacgac caaagcaaag ttttgagggg ctttataggg cagcaatagt 180
 gagctcaagc tccgaagagg tgaaaggaat catcacgggt caaaggcatg atcttgaagg 240
 acgagctaaa ggtttgctt aggtcgaaaa gaaatttgtc ccaacagtta agcgagactg 300
 aagggaatat gtggggccatc atcgataagt gcaaagagaa gctaaatcta gcggcgactc 360
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<210> 4718
 <211> 151
 <212> DNA
 <213> Glycine max

[illegible]

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<210>      4719
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<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      4719
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<210>      4720
<211>      76
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      4720
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<210>      4721
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<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
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tgcattntat ataatcaaca tatgaaagat ggagaaaata ttgtaatttc atgacattaa 180
 cccacttgt ggtgattgat gtacgtggtg attgagttat ttattggatt cttgcttcca 240
 tttgggaccg tgttgctcat catcacaggt acaaagtgtt gttaccgatt aattttttta 300
 ttacttgttc actgccatta aagacaacta atatttgata tacaaatttt gttcatgatg 360
 agagaacctt agattcccgt ttgagactga atgcaatgat tcttgcagac agtttgcatt 420
 aatcaatgta ttcaatcctt 439

<210> 4722
 <211> 262
 <212> DNA
 <213> Glycine max

<400> 4722
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 aaatacatgt atatctatct aatgatgttt tatgtgttct ctgtgctatc agtacatcat 120
 ttcagtgtgt ttctaccttg atcacgtaga tgcattgctt gttaggatca ttcaatgggtg 180
 gaaactggtc tgattcttag aacttgatag gatagggcta gtttatcgta ttatcacgag 240
 ggatcggggg acgataacct ag 262

<210> 4723
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 4723

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 ttgttcccaa acaaaattgc atcatgcata ttatagatga gatgcttta tttgataatc 180
 tccaacctta tagcccgaaa attttggact acactcttca tcattccacc aagaccttct 240
 ctagcaattg ggaaaagaag atgagagagg gaatctcctt gtcttaatcc tcaagagagt 300
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 ttcacaaatc caactccttc acttatattt gaaaaaccaa atctacccat catatagtcc 420